

Facing Data Challenges: RDM Implementation and Services in Peking University

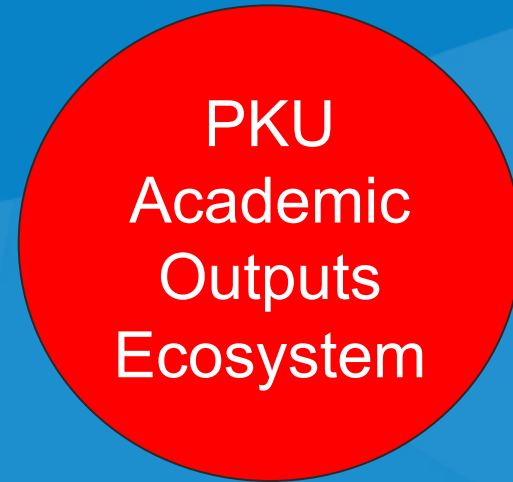
Nie Hua , Peking University Library, China

COAR 2018 Annual Meeting
2018.05@ZWM , Hamburg



PKU Academic Outputs Ecosystem

- ← Open Repository@2011
- ← Open Journals@2012
- ← Open Scholars@2015.12.25
- ← Open Research Data@2015.12.25



OA: Pathway and destination of Scholarly Communication.

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

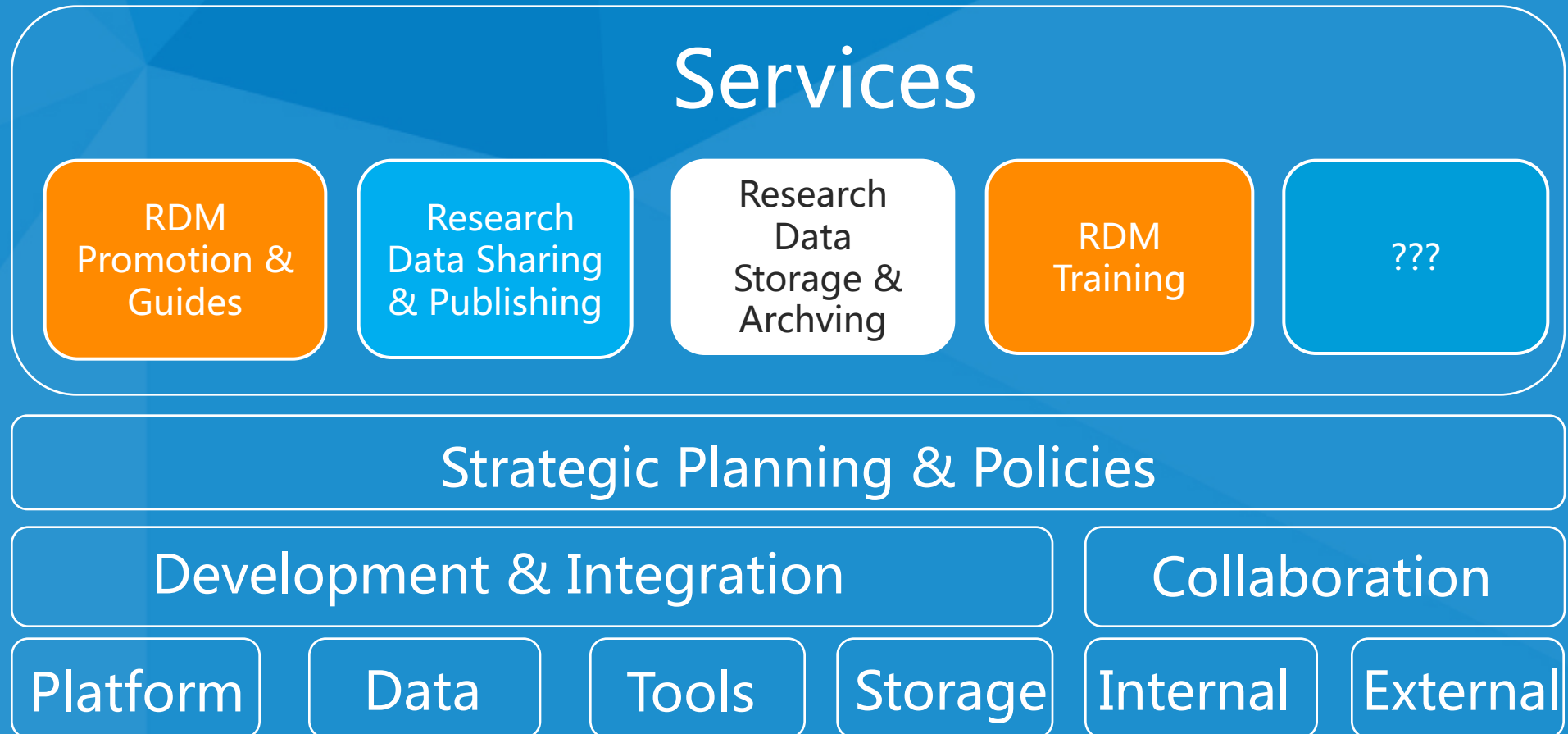
Need Assessment: Interviews @ 2013



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: @ 2014



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
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
 - DSpace

2015.12.2
5

https://dataverse.harvard.edu

Dataverse

搜索 关于 Guides 支持 注册 登录



Harvard Dataverse

A collaboration with Harvard Library, Harvard University IT, and IQSS

Metrics 2,026,874 Downloads



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

搜索 关于 支持 联系 竞赛 注册 登录 Switch to English

Henry A. Murray
Research Archive
of Harvard University
Murray Research Archive
Dataverse

+ Add Data

Sort

priority CWR of Zambia", doi:10.7910/DVN

ns for 30 prioritised CWR in Zambia. The data
rsity Collecting Missions database 1.2; GB...

北京大学开放研究数据平台

重用数据，再现科研。
提升引用，跟踪影响。

开放数据
为您的研究点赞！

创建我的数据空间

或 浏览平台数据



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

指标 8,810 下载

Metrics
8,810 Downloads




北京大学中国调查数据资料库 数据空间

北京大学


搜索该数

The root dataverse.


China Survey Data Archive
Dataverse


Center for Healthy Aging and
Development Studies
Dataverse


GIS software (Geosoft)
Laboratory, Peking University
Dataverse


visualization and visual
analytics research group,
Peking University Dataverse

Search this dataverse...

Find

Advanced Search

- 数据空间 (19)
- 数据集 (109)
- 文件 (365)

1 到 10, 共 128 个结果

- 分类
- 组织和机构 (12)
 - 研究项目 (4)
 - 研究者 (2)

- 单位
- 北京大学 (45)
 - 北京大学中国国情研究中心 (18)
 - 北京大学信息科学与技术学院 (17)
 - 民政部政策研究中心 (15)
 - 北京大学信息管理系 (6)

更多...

中国居民健康与疾病
2016-11-29
黄悦勤, 2016
平台, V1

“一带一路”沿线国家
2016-11-29
北京大学科
“五通指数2015”发布

- Dataverses (19)
- Datasets (109)
- Files (365)

1 to 10 of 128 results

Sort -

< Previous 1 2 3 4 5 Next >

Dataverse Category
Organization or Institution (12)
Research Project (4)
Researcher (2)

Affiliation
Peking University (46)
The Research Center of
Contemporary China (RCCC)
(16)
School of Electronic

China Mental Health Survey,2013
Nov 29, 2016 - Restricted-Use Data Dataverse
Yueqin Huang, 2016, "China Mental Health Survey,2013", <http://dx.doi.org/10.18170/DVN/O5PS2H>, Peking University Open Research Data Platform, V1

Five Connectivity Index of the Countries along "the Belt and Road" (2016)
Nov 29, 2016 - Science Evaluation Research Group of Peking University Dataverse
Science Evaluation Research Group of Peking University; Ocean Information Research Center of Peking University, 2016, "Five Connectivity Index of the Countries along "the Belt and Road" (2016) ", <http://dx.doi.org/10.18170/DVN/HIYRP>, Peking University Open Research Data Platform, V1

31

31 Dataverses

159

159 Data Sets

555

Data Files

9500+

Registered 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



中国健康与养老跟踪调查

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

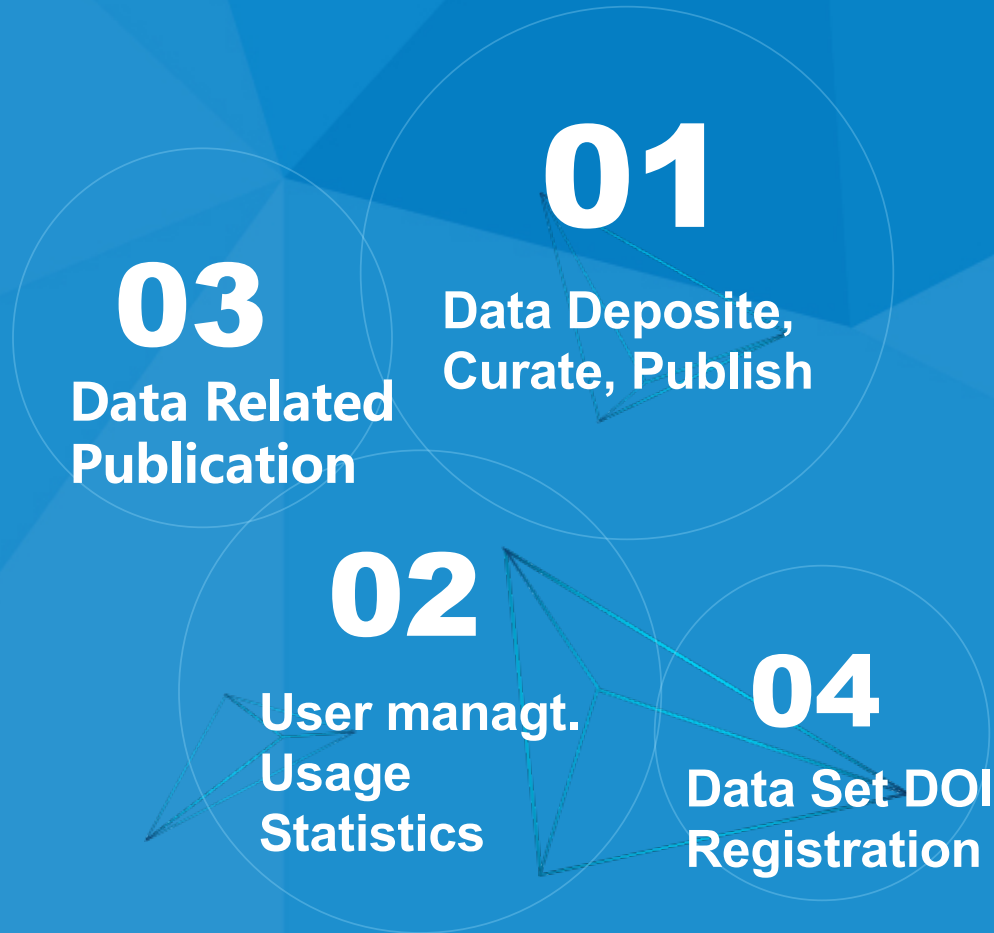


北京大学地理信息系统软件 (Geosoft)实验室

GIS software (Geosoft) Laboratory

Deposited Contents of PKU Open Research Data

Featured Services & Functions:



For: Data Provider



For: Data User

Online Data Analysis: Two Ravens

TwoRavens

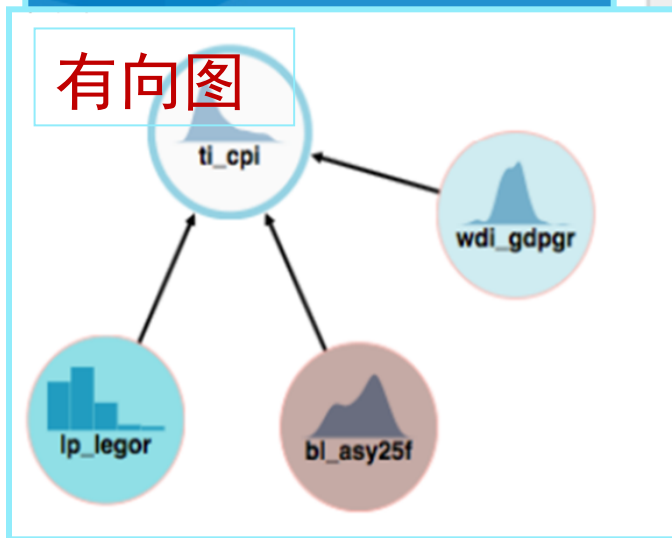
数据选择与查看

Data Selection

Variables Subset

- Gender
- TriadRelativism
- GrowProvince
- ProvincePathogenHumanPlusYbook
- CountyDiseasePrevalenceHumanCn
- CountyDCode
- RiceWheatBorder
- CountyDCodeRice
- ProvDCode
- ProvincePaddyPercent
- RiceCat
- SocialPolitics

Label	Wheat	Mean
		Median
	0.7679	
		Mode
	1.000	
	NaN	Stand Dev
	0.4231	Maximum
	1.000	Minimum
	0.000	Invalid
	944	Valid
	224	



模型分析结果

call: func(var)

Model Selection

Models Set Covar. Results

bl_asy25f
x: 5.688
x1: 9.010

ti_cpi
x: 3.983
x1: 3.983

wdi_gdpgr
x: 0.2709
x1: 11.13

lp_legor
x: 1.1
x1: 4

Multi Search Functions:

查找

Dataverses ▼

Datasets ▼

Datasets: Citation Metadata ▼

Datasets: Geospatial Metadata ▼

Files ▼

查找

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

Data Set Info.

Data File Name

Variables

Tracking Data related Publications:

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



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

赵耀辉; John Strauss; 杨功焕,
2015, “中国健康与养老追踪调查 (2013全国追踪)”,
<http://dx.doi.org/10.18170/DVN/AQIU6C>, 北京大学开放研究数据平台, V1

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.



北京大学 机构知识库
Institutional Repository of Peking University

User and Usage:

Guest User: 100,00+ @ last 12 months

Registered User: 9556

- Institutions of Users : 72countries, 1000 research institutions
- Top five countries of visitors: China, US, UK, Japan and Kerea
- Disciplines: Economics, Sociology, Statistics, demography, Management Science, Engineering, Computer Science, Library Science. Chinese. etc.

31

31 Data Space

159

159 Data Sets

555

Data Files

9500+

Registered Users



62,215 Downloads

China Family Panel Studies



432,630 Views

Visualization and visual analytics research group



中国健康与养老跟踪调查

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



1,823,890 Views

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

Re3data.org registered/indexed

- Registered on re3data.org @2015.5.15
- re3data.org identifying and listing **2,000** research data repositories
- From China: **37**↑。

The screenshot displays the re3data.org website interface. At the top, the logo reads 're3data.org' with 're3' in green and 'data.org' in blue, followed by 'REGISTRY OF RESEARCH DATA REPOSITORIES' in smaller blue text. A navigation bar contains links for Home, Search, Browse, Suggest, FAQ, About, Schema, API, Contact, and Legal notice / Impressum. Below the navigation bar is a search bar with the text 'peking university' and a 'Search' button. To the right of the search bar is a 'Toogle short help' link and a 'Sort by' dropdown menu. Below the search bar are navigation arrows for 'Previous', '1', and 'Next'. The main content area shows 'Found 2 result(s)' and a search result for 'Peking University Open Research Data'. The result includes the title 'Peking University Open Research Data', the subtitle 'PKU-Opendata', and a list of subject categories: Humanities and Social Sciences, Engineering Sciences, Social and Behavioural Sciences, and Computer Science, Electrical and System Engineering. Below the subject categories are content type filters: Plain text, Standard office documents, Scientific and statistical data formats, Databases, and Structured graphics. The country filter shows 'International' and 'China'. A paragraph of text describes the platform: 'In order to meet the needs of research data management for Peking University. The PKU library cooperate with the NSFC-PKU data center for management science, PKU science and research department, PKU social sciences department to jointly launch the Peking University Open Research 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.'

Awareness:

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

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

北京大学图书馆
第三届搜索达人大赛

—“开放数据”篇

数据寻宝 谁是达人

科研过程

1. 选题和研究方案
重用别人的数据或利用别人的数据

和长期保存

真金不怕火炼，大奖正虚位以待
敢来接受挑战吗？

参赛链接及详情请见：图书馆主页最新消息
本次大赛由著名数据库商EBSCO公司独家赞助支持。

2017.11-2018.04:

1st National University Data Driven Innovation Research



Tencent 腾讯

GALL
A Cengage Company

Policies of Scientific Data Management

General Office of the State Council, PRC

The infographic on the left, titled '国务院办公厅印发《科学数据管理办法》' (General Office of the State Council Issues 'Measures for the Management of Scientific Data'), outlines key policies. It states that the measures aim to '进一步加强和规范科学数据管理, 更好地为国家科技创新、经济社会发展' (further strengthen and规范 scientific data management, better serving national technological innovation and socio-economic development). Key points include: '科学数据是国家科技创新发展和经济社会发展的重要基础性战略资源' (Scientific data is an important basic strategic resource for national technological innovation and socio-economic development); '《办法》明确了我国科学数据管理的总体原则、主要职责、等方面内容, 着重从五个方面' (The measures clarify the general principles, main responsibilities, etc., of scientific data management in China, focusing on five aspects); '明确各方职责, 强化法人单位主体责任, 明确主管部门, 体现“谁拥有、谁管理、谁开放、谁负责”' (Clarify the responsibilities of all parties, strengthen the main responsibility of legal entities, clarify the main departments, and reflect 'who owns, who manages, who opens, who is responsible'); and '加强知识产权保护, 对科学数据使用者和提供者依法进行...' (Strengthen intellectual property protection, and legally regulate scientific data users and providers...). A cartoon character is shown holding a sign with the first point. The photo on the right shows the inauguration of the '国家信息中心数字中国研究院' (Digital China Institute of the National Information Center), with a group of officials standing behind a banner that reads '国家信息中心数字中国研究院 正式成立' (Digital China Institute of the National Information Center Officially Established).

Digital China Institute

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



北京大學圖書館
PEKING UNIVERSITY LIBRARY