

Open Research Data policies and Practices in China

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Contents

- Data Projects
- Data policies
- Stakeholders
- Steps further

- National Science and Technology Infrastructure, supported by MOST(the Ministry of Science and Technology)
 - At the early stage(from 2001)
 - supported the creation of 13 scientific data centres/sharing platforms
 - covering the fields of agriculture, forestry, seismicity, meteorology, marine science, earth system, population and health, biology, chemistry, materials, energy, etc.
 - In the last several years
 - apply post-evaluation to decide which ones to be incorporated into the NSTI platform and to get subsidies for further development.

National Level practice1-NSTI



**National Earth System
Science Data Sharing
System**
<http://www.geodata.cn/>



**China Meteorological
Data Service Center**
<http://data.cma.cn/>



**National Forestry Science
Data Center**
<http://www.cfsdc.org/>



**China Earthquake
Datacenter**
<http://data.earthquake.cn/>



**National Agriculture Science Data
Center**
<http://www.agridata.cn/>

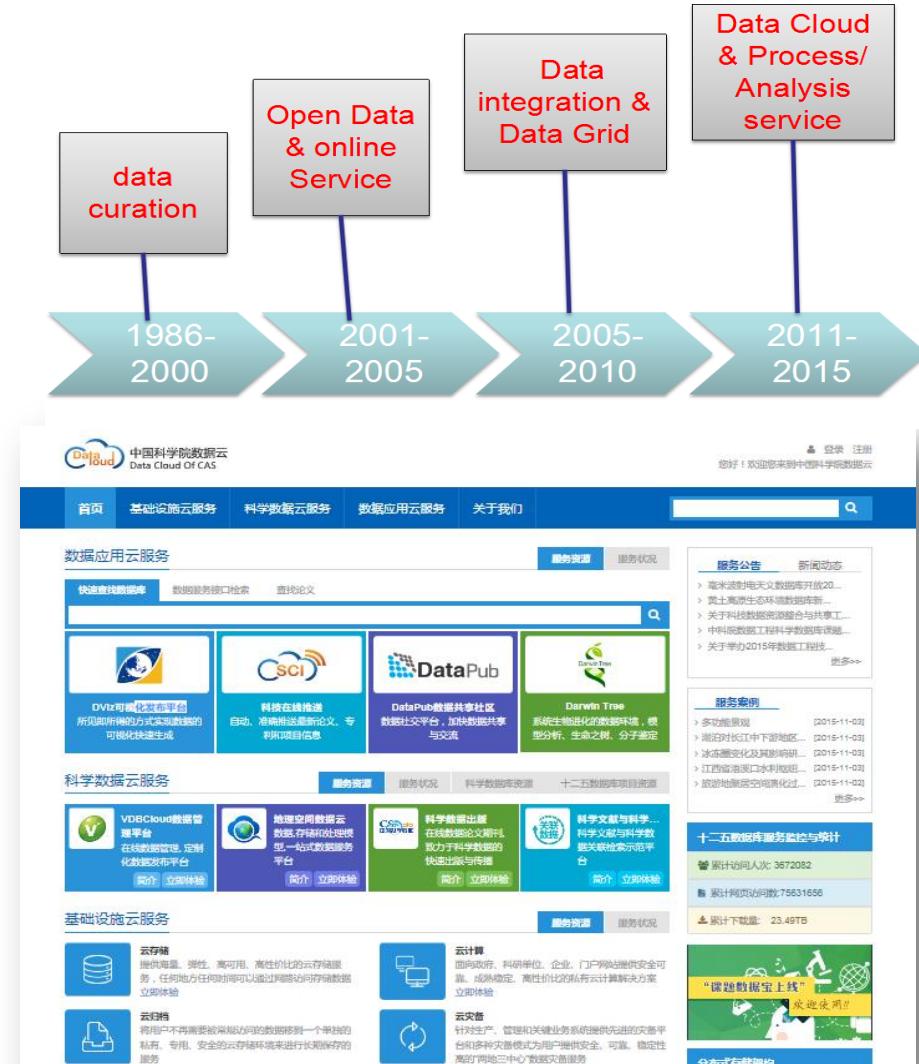


**National Scientific Data Sharing
Platform for population and Health**
<http://www.ncmi.cn>

National Level practice2-CAS Practice

Scientific data program

- A Long-term mission funded by CAS which started in 1986
 - many institutes involved
 - long-term, large-scale collaboration
 - data from research, for research
- To collect multi-discipline research data and promote data sharing
 - More than **350** research databases and **1350** datasets by 61 institutes have been established.
 - Over **600TB** data available for open access and download



<http://www.csdb.cn>

Do we have National Level policies?

- Not yet
- But
 - MOST has taken one year to draft a regulation on open research data, it is estimated to be published in 2018
- Before that
 - There are already some data sharing policies on program level, for example, NSTIC, CAS scientific data program.
 - NSFC is pushing the scientists to open research products ,mainly focus research papers.

Who are the key policies players

- Ministry of Science and technology (MOST)
- Chinese Academy of Sciences (CAS)
- China association for Science and Technology(CAST)
- National natural science foundation of China(NSFC)

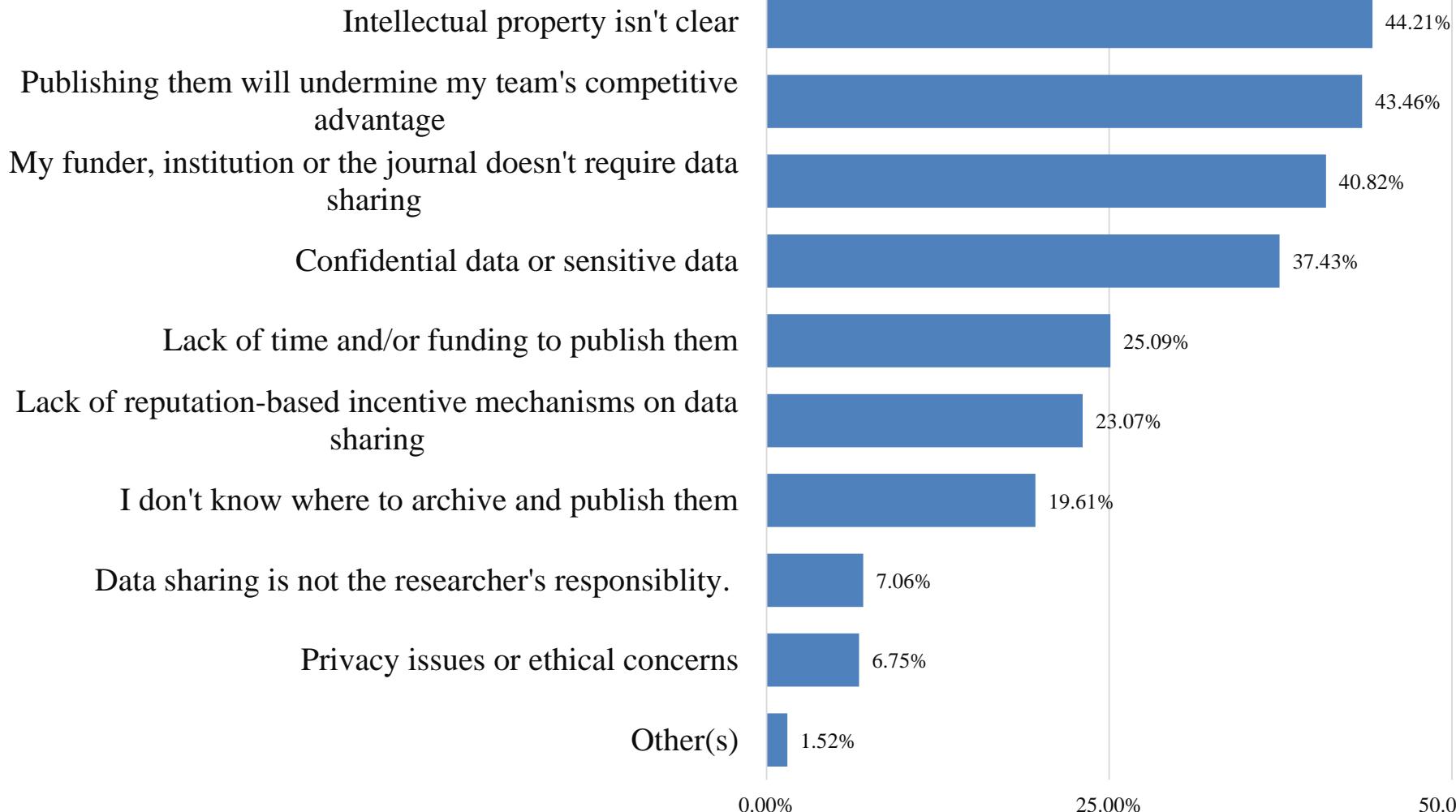
Who Are The Key Promoters

- National Science and Technology Infrastructure Center
 - An organization belong to MOST
- Chinese Academy of Sciences
- CODATA China
- WDS China

What Are Interesting Projects to Promote Open Data/Open Science

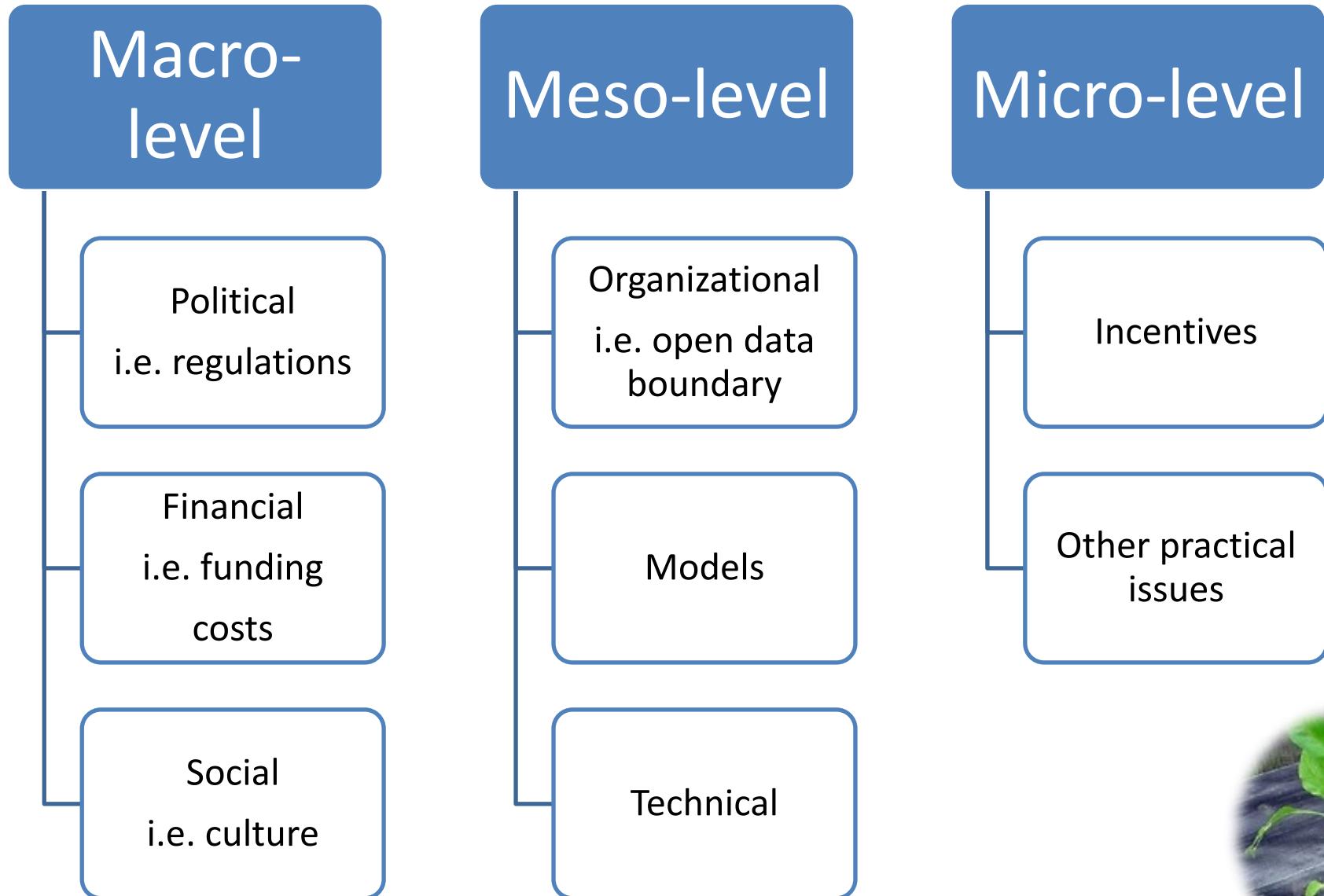
- NSTI continues
- CAS scientific data program continues
- CASEarth program is launched
 - The strategic Priority Research Program(Category A)
 - Funded by almost 1.8 billion YMB for 5 years
 - With almost 30 institutes involved
 - Covering Biodiversity, ecology system, environment, natural resources, earth science, etc.
 - To make big data driven discovery and help decision-making in both science and social fields

What Are the Barriers



Reasons why respondents are hesitant to share their data, n=7082

Challenges/Opportunities



A new way to try out

Data publishing on the road

Classification	Worldwide Cases	Cases in China
Data publication as enrichment of an article	...traditional journals with required data published as supplements	GigaScience 
Article-as-descriptor publication, especially publishing articles in data journals	  	
Standalone data publication(data publication as an independent object in a research data repository)	 	 

China Scientific Data



- Academic journal publishing **multidisciplinary data papers**
- **Quarterly** with **online** bilingual versions
- Open access, efficient processing, high exposure and rapid dissemination
- CN11-6035/N, ISSN 2096-2223
- Indexed by **China Science Citation Database(2017-2018)**
- SCOPE: Data papers describing (but not limited to):
 - Datasets or data products generated from major scientific activities
 - Derived datasets or data products refined from raw data
 - Datasets linked to existing publications
- China Scientific Data does NOT publish new research findings, or techniques, methods and cases concerning data quality researches and data applications.

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Steps further for open data

- Data programmes provides efficient incentives and practical rules for open data practices.
- The implementation of data policies shall play a vital role in pushing the open data career forward.
- Data publishing provides us with another way forward, but to open data we need even more.

Thank you!