

Researcher Survey on Research Data Management and Usage

S0. Do you use data for your research? In this context, data refers to information generated through methods such as experiments, observation, interviews, survey, extraction, and analysis to obtain research results, and essential and objective factual records necessary to validate research findings.

① Yes. I use.

② No. I do not use. (☞survey ends here)

※ First, I would like to ask about your experience in using, collecting, and producing research data

Research data refers to information generated through methods such as experiments, observation, interviews, survey, extraction, and analysis to obtain research results, and essential and objective factual records necessary to validate research findings.

Q1. How often do you use data in your research?

- ① Always use ③ Occasionally use
 ② Frequently use ④ Rarely use

Q2. In the past three years, how many publications (including research papers, books, reports, etc.) have you published that utilized research data, including co-authored publications?

- ① 1~2 ② 3~4 ③ 5~6 ④ more than 7

Q3. Have you ever collected or produced data, either on your own or with others, for research purposes?

- ① Yes ② No (⇒ go to Q11)

Q4. (If you have experience in collecting or producing data) What kinds of research data have you collected or produced during your research? Please check all that apply.

- ① Observational data (Data generated from observations made in a specific place or time)
 ② Computational data (Computer modeling and Simulation)
 ③ Experimental data (Data from laboratory settings, experimental equipments, or field experiments)
 ④ Survey data
 ⑤ Interview data (Data from in-depth interviews, focused group interviews, etc.)
 ⑥ Governmental statistics (Demographics, economic indicators, etc.)
 ⑦ On/offline records or documents (Examples: Newspapers, photos, letters, books, diaries, maps, SNS data, etc.)
 ⑧ Others (Specify:)

Q5. How long do you think you will be able to continue using the data you have collected or produced after the completion of the research project?

- ① only be used for this specific research ④ up to 5 years
 ② up to one year ⑤ up to 10 years
 ③ up to 3 years ⑥ more than 10 years

Q6. How long do you think the data you have collected and produced to be useful within your academic discipline after the completion of the research project?

- | | |
|---|--|
| <input type="checkbox"/> ① Not likely to be used at all | <input type="checkbox"/> ④ 4~5 years |
| <input type="checkbox"/> ② 1 year | <input type="checkbox"/> ⑤ 6~10 years |
| <input type="checkbox"/> ③ 2~3 years | <input type="checkbox"/> ⑥ more than 10 years |
| | <input type="checkbox"/> ⑦ to be used indefinitely |

Q7. Do you keep all the research data you've ever collected and produced, either on your own or with others?

- | | |
|---|--|
| <input type="checkbox"/> ① I have kept all of it | <input type="checkbox"/> ③ I only have kept some of it |
| <input type="checkbox"/> ② I have kept most of it | <input type="checkbox"/> ④ I have very little of it |

Q8. Where do you store the data you have collected or produced? Please select all that apply.

- ① On my personal computer, USB drive, or hard drive
- ② On my personal cloud
- ③ On the shared drive or cloud of my research team
- ④ In my institution's repository
- ⑤ In a publisher or publisher-related repository
- ⑥ In the funding agency's repository
- ⑦ In data archives or repositories (Examples: KOSSDA, ICPSR, DataVerse, etc)
- ⑧ Others (Specify: _____)

Q9. Do you make a plan for who will manage and preserve the collected data and how this will be done before and after collecting research data?

- | | |
|-----------------------------------|---------------------------------------|
| <input type="checkbox"/> ① Always | <input type="checkbox"/> ③ Mostly not |
| <input type="checkbox"/> ② Mostly | <input type="checkbox"/> ④ Never |

Q10. Have you ever lost or damaged research data that you have collected or produced?

- | | |
|--------------------------------|-------------------------------|
| <input type="checkbox"/> ① Yes | <input type="checkbox"/> ② No |
|--------------------------------|-------------------------------|

※ The following questions are about your experience using data produced by other researchers, research teams, and institutions

Q11. To what extent do you need data collected or produced by other researchers, researcher teams, or institutions for your research?

- | | |
|---|---|
| <input type="checkbox"/> ① not necessary at all | <input type="checkbox"/> ③ somewhat necessary |
| <input type="checkbox"/> ② barely necessary | <input type="checkbox"/> ④ very necessary |

4) Reusing other researchers' data requires time and effort to locate data sets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5) Reusing other researchers' data requires time and effort to process data sets for a new study	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

※ The following questions are about data sharing

Data sharing here means making your collected or produced data available to others for reuse, either directly or through channels such as your websites or data archives.

Q15. How much do you share the data you have produced?

- ① I do not share my data at all (☞ go to Q19)
- ② I share a part of my data
- ③ I share most of my data
- ④ I share all of my data
- ⑤ I have no experience in producing and collecting data (☞ go to Q22)

Q16. (If you have shared data) Through which channels have you shared your research data? Please select all that apply.

- ① Directly shared with colleagues or individual researchers upon request
- ② Provided on a personal or research team's website
- ③ Provided on my institution's repository or server
- ④ Deposited in a specialized data service institution
- ⑤ Provided through a journal publisher's DB alongside a publication
- ⑥ Others (Specify: _____)

Q17. (If you have shared data) Who do you allow to use your research data?

- ① Only the principal investigators, or co-investigators involved in collecting the research data
- ② All individuals involved in the research
- ③ External researchers who request the data, in addition to members of your research team
- ④ Anyone (making data publicly available for anyone to use)
- ⑤ Others (Specify: _____)

Q18. How much do you agree or disagree with the following statements?

	Strongly agree ①	Somewhat agree ②	Neither ③	Somewhat disagree ④	Strongly disagree ⑤	Don't Know ⑥
1) I am interested in sharing my data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2) I feel sharing my data is beneficial to me as well	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Considering the time and effort that I have to spend, sharing my primary research data is worthwhile	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q19. If you have any concerns about sharing your data, what are your concerns or hesitations about sharing your data? Please check all that apply.)

- ① My data contains sensitive information, such as personal data
- ② It would require significant time and effort to prepare my data for sharing
- ③ I lack the necessary funding to share my data
- ④ The copyright or ownership of the data is unclear
- ⑤ I cannot find a suitable platform to share my data
- ⑥ There may be errors in my data
- ⑦ I may not be adequately compensated or acknowledged for sharing my data
- ⑧ I think my data would not be of great interest to others
- ⑨ There are no mandatory requirements or regulations for data sharing
- ⑩ Others (Specify: _____)

Q20. How much do you agree or disagree with the following statements?

	Strongly agree ①	Somewhat agree ②	Neither ③	Somewhat disagree ④	Strongly disagree ⑤	Don't Know ⑧
1) I should have the right to decide how my research data is used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) If other researchers use my data, they should <u>cite</u> my data in an appropriate format	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) I will share my data after I have fully utilized it	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q21. How long do you think it is appropriate to exclusively use the data you have collected and produced before sharing it?

- ① The data can be shared during the research process
- ② 1 year ③ 2~3 years ④ 4~5 years ⑤ 6~10 years ⑥ more than 10 years

Q22. Considering your field of research discipline, to what extent do you agree or disagree with the following statements?

In my discipline,	Strongly agree ①	Somewhat agree ②	Neither ③	Somewhat disagree ④	Strongly disagree ⑤	Don't Know ⑧
1) Data repositories are available for researchers to share data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2) Researchers can easily access data repositories	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Many researchers are currently participating in data sharing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) Researchers are well-aware of standard guidelines for research data management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5) Public funding agencies require researchers to share data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) Journals require researchers to share data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) Policies that promote data sharing are well-established	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q23. Does your institutions provide the following research data management system?

My institution ...	Yes ①	No ②	Don't Know (8)
1) has a formal process for managing data during the life of the project (short-term)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) has a formal process for managing data beyond the life of the project (long-term)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) provides the funds to support data management during the life of a research project (short-term)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) provides the funds to support data management beyond the life of a research project (long-term)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q24. Does your institution provide the following support for research data management? If so, have you ever received such support?

	24-1) provides ...		Don't Know (8)	24-2) I have experienced...		Don't Know (8)
	Yes ①	No ②		Yes ①	No ②	
1) training on data management	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) guidelines on data management	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) assistance on creating data management plans	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) assistance on creating metadata* to describe my data or datasets	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5) training on how to cite datasets	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* Metadata is a set of data that systematically describes various characteristics and information of data, including its creator, purpose of data collection, collection methods, and the structure and format of data.

Q25. How much do you agree or disagree with the following statements?

	Strongly agree ①	Somewhat agree ②	Neither ③	Somewhat disagree ④	Strongly disagree ⑤	Don't Know ⑧
1) Sharing data is beneficial to others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) Sharing data fosters academic advancement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Data collected and produced through publicly funded research is a public good and should be made publicly available to all	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q26. How much do you agree or disagree with the following statements?

	Strongly agree ①	Somewhat agree ②	Neither ③	Somewhat disagree ④	Strongly disagree ⑤	Don't Know ⑧
1) Data sharing would enhance my academic recognition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) Data sharing would be helpful in my academic career	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Sharing my primary research data would improve the quality of the work I do than working in the current way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) Sharing research data increases my networking possibilities with others	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q27. How much do you agree or disagree with the following statements?

	Strongly agree ①	Somewhat agree ②	Neither ③	Somewhat disagree ④	Strongly disagree ⑤	Don't Know ⑧
1) There is a high probability of losing publication opportunities If I share data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) I am concerned that the primary research data I share could be misused	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Sharing my primary research data leads to a loss of control over my work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) I don't gain anything If I share my primary research data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q28. Below are listed factors that known to promote research data sharing Please indicate how important you think each factor in promoting data sharing.

	Very important ①	Fairly important ②	Neither ③	Not too important ④	Not important at all ⑤	Don't Know (8)
1) Being included as a co-author on publications resulting from use of the shared data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) Public acknowledgment and recognition for data providers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Citing the data source in research outputs using appropriate citation formats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) Providing financial incentives for data sharing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5) Reflecting data sharing in research performance evaluations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6) considering data sharing record when allocating research funding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q29. The following are essential actions to promote research data sharing. which of these fo you think is the most important priority? Please choose the one.

- ① Establishing platforms for data storage and sharing
- ② Implementing incentives to encourage researchers data sharing
- ③ Enhancing researcher's awareness and obtaining consent from researchers
- ④ Developing legal and institutional frameworks for secure data sharing
- ⑤ Establishing systemic procedures and formats for data sharing
- ⑥ Supports for training and education on data management
- ⑦ Measuring and evaluating the utilization and impact of data
- ⑧ Building a societal consensus on the importance of reproducibility for scientific research ethics
- ⑨ Others (Specify:)

※ The following are the necessary questions for statistical analysis.

S1. To which age group do you belong?

- ① 20s ② 30s ③ 40s ④ 50s ⑤ More than 60s

S2. What is your gender?

- ① Male ② Female ③ Others

S3. Which of the following organizations are you affiliated with?

- ① University
- ② National research organizations, Central government research institutes
- ③ Private research institutions
- ④ Government organizations (government ministry, public corporation, quasi-governmental organizations, other public institutions)
- ⑤ Private organizations
- ⑥ Others (Specify: _____)

S4. What is your current primary position?

- ① Undergraduate
- ② Graduate
- ③ Researcher
- ④ Instructor
- ⑤ Professor
- ⑥ Others (Specify: _____)

S5. What is our main area of work or research?

- ① Political science
- ② Economics
- ③ Business administration
- ④ Accounting
- ⑤ International trade
- ⑥ Sociology
- ⑦ Social welfare
- ⑧ Area studies
- ⑨ Education
- ⑩ Education
- ⑪ Health care
- ⑫ Statistics
- ⑬ Law
- ⑭ Public administration
- ⑮ Public policy
- ⑯ Geography
- ⑰ International and regional development
- ⑱ Tourism
- ⑲ Journalism and broadcasting
- ⑳ Library and information science
- ㉑ Military science
- ㉒ Psychological science
- ㉓ Others (Specify: _____)

S6. Considering your total research activities as 100%, what percentage of your work time is allocated to the following activities?

- [%] ① Research cooperation and oversight
- [%] ② Research administration
- [%] ③ Data collection, processing, and analysis
- [%] ④ Writing research papers and reports
- [%] ⑤ Data management and storage
- [%] ⑥ Promoting the impact of research findings, including data release and sharing
- [%] ⑦ Others

S7. How much do you agree or disagree with the following statements?

	Strongly agree ①	Somewhat agree ②	Neither ③	Somewhat disagree ④	Strongly disagree ⑤	Don't Know (8)
1) I feel comfortable with information and communication technologies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2) I like trying out and using new technologies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) I am interested in information and communication technologies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4) I see myself as open to new technologies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

S8. Do you conduct your research individually or collaboratively with other researchers?

- ① I always conduct research individually
- ② I usually conduct research individually
- ③ I usually collaborate with other researchers
- ④ I always collaborate with other researchers

The survey is now complete. Thank you for taking the time to complete our survey.