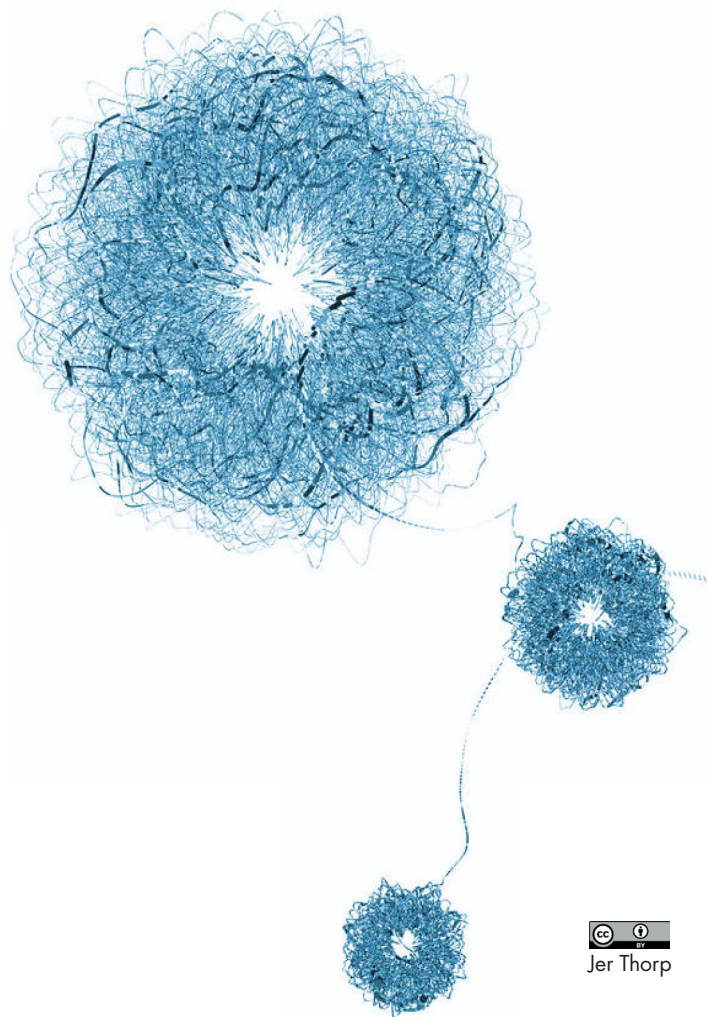


# Questionnaire National Research Data Survey



  
Jer Thorp

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Coordinator: Christian Gumpberger, University of Vienna • Work-Package-Cluster B • e-Infrastructures Austria  
Information on authors and contributors at [www.e-infrastructures.at/en](http://www.e-infrastructures.at/en)



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# National Research Data Survey

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Introduction to survey

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## Participate in shaping future research data services in Austria!

### The topic

The term „**research data**“ in this survey refers to all data that make up the foundation of your research results (text, spreadsheets, video, audio, images, and soon), meaning data that are generated in the course of scientific research and artistic creation processes (including digitization, experiments, measurements, surveys, interviews and designs).

**The objective of the survey** is twofold, first to find out the status quo of managing research data in Austria, and second to determine the requirements for future research data services.

### The context

This survey is performed within the scope of **e-Infrastructures Austria**, which is a project sponsored by the Federal Ministry of Science, Research and Economy (BMWFW). All scientists from 21 universities and three non-university institutions are encouraged to participate.

**The goal of e-Infrastructures Austria** is the implementation of services, technical infrastructures and a knowledge network for the sharing and archiving of publications, multimedia, and other data from research and science.

Answering these questions is voluntary and **anonymous**, and should take approximately 15 minutes.

This survey comprises 26 questions. Mandatory questions are marked with an asterisk (\*).

## DATA TYPES AND FORMATS

### Which types of digital content do you create when generating research data? \*

Please choose all that apply:

- Text documents (DOC, ODF, PDF, TXT, etc.)
- Audio (MP3, WAV, AIFF, OGG etc.)
- Structured text (HTML, JSON, TEX, XML etc.)
- Video/Film (MPEG, AVI, WMV, MP4 etc.)
- Spreadsheets (XLS, ODS, CSV, SAS, Stata, SPSS, etc.)
- Software applications Source code (CSS, JavaScript, Java etc.)
- Databases (MS Access, MySQL, Oracle etc.)
- Configuration data (INI, CONF etc.)
- Graphics/Images (JPEG, SVG, PNG, GIF, TIFF etc.)
- Software applications
- Other: .....

### What percentage of your research data volume do you generate (estimated) in a digital format? \*

Please also include designs, plans, sketches, illustrations, photographs, laboratory notebooks, field notes, etc.

Please choose only one of the following:

- > 75%
- 50 – 75%
- < 50%
- I am not sure

# DATA ARCHIVING, BACKUP AND LOSS

## Where do you usually store your research data? \*

Please choose all that apply:

- At an external data center
- In a cloud service
- Centrally on a server of the university (institutional repository)
- Centrally on a server of the institute
- Locally on my work computer
- Other: .....
- Locally on my private computer
- On an external hard drive (also USB drive)
- On CDs/DVDs
- On magnetic tapes
- Directly on the machine or instrument

## Please estimate the total volume of your research data based on the storage space you require (your estimated average per year). \*

Please choose only one of the following:

- Small (< 50 GB)
- Medium (50 – 100 GB)
- Large (101 GB – 1 TB)
- Very large (1 TB – 1PB)
- Massive (> 1 PB)
- I am not sure.

## Do you normally document your research data? \*

«Document» refers to include information regarding how the data were collected, what they mean, their structure, and what changes and processes to clean up and analyze the data have been performed. Good documentation should be able to answer the questions: who, what, how, where, when and why.

Please choose all that apply:

- Yes, using suitable standards
- Yes, individually and consistently
- Yes, individually and not consistently
- Other: .....
- No
- I do not know

**Who is responsible for the archiving of your research data? \***

Please choose all that apply:

- I myself
- Project/group manager
- Scientific employee
- Non-scientific employee
- Other .....
- University computer/IT center
- Library
- External service provider

**Have you already experienced research data loss? \***

Please choose only one of the following:

- Yes
- No

Make a comment on your choice here:.....

## ETHICAL AND LEGAL ASPECTS

### **Do you use any external data (i.e. not generated by you) in your own research?\***

Please choose all that apply:

- |   |   |
|---|---|
| <input type="checkbox"/> Immediately without any processing                     | <input type="checkbox"/> After substantial processing |
| <input type="checkbox"/> After minimal processing (cleaning, compilation, etc.) | <input type="checkbox"/> Never                        |
| <input type="checkbox"/> Other .....  | <input type="checkbox"/> I do not know                |

### **Do you have any legal concerns regarding the use of external data? \***

Please choose only one of the following:

- Yes, often    Yes, sometimes    Sometimes    Never

Make a comment on your choice here:.....

### **What normally happens with the research data you generated when you leave the institution? \***

Please choose all that apply:

- |   |   |
|---|---|
| <input type="checkbox"/> The data remain at the institution | <input type="checkbox"/> The data are deleted |
| <input type="checkbox"/> The data are taken                 | <input type="checkbox"/> I do not know        |
| <input type="checkbox"/> Other .....                        |   |

### **Do you use or generate sensitive or confidential research data? \***

Please choose only one of the following:

- Often    Sometimes    Hardy ever    Never    I do not know

### Whom do you grant access to your research data? \*

This also refers to unpublished research data.

Please choose all that apply:

- |  |   |
|--|---|
| <input type="checkbox"/> The public                    | <input type="checkbox"/> Selected members of my institution |
| <input type="checkbox"/> The scientific community      | <input type="checkbox"/> Interested persons by request      |
| <input type="checkbox"/> All members of my institution | <input type="checkbox"/> No one                             |
| <input type="checkbox"/> Other .....                   |   |

### How can others access your research data? \*

Please choose all that apply:

- Via data archive/repository (research data-specific, disciplinary or institutional)  
Please provide the name of the data archive/repository:  
.....

- As linked supplementary material for publications  
Please provide the name of the journal:  
.....

- Via personal or institutional website
- Via remote server or share drives
- Via cloud applications (Dropbox, Google Docs, etc.)
- Via physical disks and/or email
- Not at all
- Other .....

### Are your research data reusable for others? \*

«Reusable» means that the data can be used and further processed, taking into account predefined rules of what is allowed to do with the data (for example by using a Creative Commons license).

Please choose only one of the following:

- Yes       Sometimes       No

Make a comment on your choice here: .....



### What type(s) of user agreements have been put in place? \*

Please choose all that apply:

- |  |   |
|--|---|
| <input type="checkbox"/> Open content licenses (e.g. Creative Commons License, General Public License, etc.) | <input type="checkbox"/> Cooperation agreements |
| <input type="checkbox"/> Individual license agreements   | <input type="checkbox"/> None                   |
| <input type="checkbox"/> Other .....   | <input type="checkbox"/> I do not know          |



### Which kind of incentives could motivate you to share your research data and make them (openly) accessible? \*

Please choose all that apply:

- Recognition in the scientific community
- Consideration of research data as relevant scientific output in research documentation, intellectual capital report and evaluations
- Increased visibility and impact of your own research (e.g. through co-authorships and/or citations in publications resulting from shared research data)
- New contacts and/or opportunities for cooperation with other scientists
- Financial incentives (bonus, expense allowance)
- Establishment of standards for accountability and appropriate use (Fair Use) of the data
- Support in the process of making the data accessible
- None
- Other .....





### What keeps you from sharing your research data with others? \*

Please choose all that apply:

- |  |  |
|--|--|
| <input type="checkbox"/> Privacy violation   | <input type="checkbox"/> Danger of misuse                                      |
| <input type="checkbox"/> Other legal restrictions (e.g. copyright, patent law, trademark protection, use protection, etc.) | <input type="checkbox"/> Increased competition in the „publish or perish“ game |
| <input type="checkbox"/> Increased effort of time and/or cost  | <input type="checkbox"/> Missing data standards                                |
| <input type="checkbox"/> Risk of misinterpretation and/or falsification of data  | <input type="checkbox"/> Missing data processes                                |
| <input type="checkbox"/> Potentially undesired commercial use  | <input type="checkbox"/> Use of rare data formats                              |
| <input type="checkbox"/> Danger of misuse  | <input type="checkbox"/> Lack of motivation for sharing                        |
| <input type="checkbox"/> Sonstiges .....   |  |

## Which data archive would you preferably use? \*

Please choose all that apply:

- |   |   |
|---|---|
| <input type="checkbox"/> International multidisciplinary Data Archive   | <input type="checkbox"/> Centralized Data Archive in my institution   |
| <input type="checkbox"/> International discipline specific Data Archive | <input type="checkbox"/> Decentralized Data Archive in my institution |
| <input type="checkbox"/> National multidisciplinary Data Archive        | <input type="checkbox"/> I don't use a Data Archive                   |
| <input type="checkbox"/> National discipline specific Data Archive      |   |
| <input type="checkbox"/> Other .....                                    |   |

## What supportive options for handling research data would you use at your institution? \*

Please choose all that apply:

- |   |   |
|---|---|
| <input type="checkbox"/> First Level Support (helpdesk)   | <input type="checkbox"/> Legal advice     |
| <input type="checkbox"/> Technical infrastructure   | <input type="checkbox"/> Training courses |
| <input type="checkbox"/> Specific support for data management (e.g. data processing, creating a data management plan, etc.) | <input type="checkbox"/> None             |
| <input type="checkbox"/> Other .....  |   |

## What further action do you expect from your institution? \*

Please choose all that apply:

- |  |   |
|--|---|
| <input type="checkbox"/> Guidelines or policies for dealing with research data         | <input type="checkbox"/> Include research data management in the curriculum |
| <input type="checkbox"/> Include research data management in the job responsibilities  | <input type="checkbox"/> None   |
| <input type="checkbox"/> Employ qualified personnel for research data management tasks |   |
| <input type="checkbox"/> Other .....   |   |

## Optional: Do you have any further comments or suggestions relating to research data?

.....



**Please select the institution where you are mainly employed. \***

Please choose only one of the following:

- Academy of Fine Arts Vienna
- Vienna Chamber of Labour
- Institute of Science and Technology (IST Austria)
- Medical University Graz
- Medical University of Vienna
- Medical University of Innsbruck
- Montanuniversität Leoben
- Austrian Academy of Sciences
- Graz University of Technology
- Vienna University of Technology
- University of Applied Arts Vienna
- University of Natural Resources and Life Sciences Vienna
- University of Arts and Design Linz
- University of Music and Performing Arts Graz
- University of Music and Performing Arts Vienna
- University of Graz
- University of Innsbruck
- University of Klagenfurt
- University of Linz
- University Mozarteum Salzburg
- University of Salzburg
- University of Vienna
- University of Veterinary Medicine Vienna
- Vienna University of Economics and Business
- Other institution: .....

## ABOUT YOU



**Please select your position at the institution selected above.**

Please choose only one of the following:

- University professor
- Assistant professor, Senior scientist, Senior artist, Senior lecturer
- Assistant professor, Associate professor
- Project staff
- Lecturer
- Doctoral candidate
- Student assistant
- Other .....

Make a comment on your choice here:.....



### Please select your main discipline. \*

For more information please refer to: [http://www.dfg.de/download/pdf/dfg\\_im\\_profil/gremien/fachkollegien/amtsperiode\\_2008\\_2011/Grafik\\_dfg\\_fachsystematik\\_en\\_2008\\_2011.pdf](http://www.dfg.de/download/pdf/dfg_im_profil/gremien/fachkollegien/amtsperiode_2008_2011/Grafik_dfg_fachsystematik_en_2008_2011.pdf)

Please choose only one of the following:

Agriculture, Forestry, Horticulture and Veterinary Medicine

Biology

OPTIONAL: Please specify the discipline

Please choose only one of the following:

Basic Biological and Medical Research

Microbiology, Virology and Immunology

Plant Sciences

Zoology

Other .....

Chemistry

OPTIONAL: Please specify the discipline

Please choose only one of the following:

Analytical Chemistry, Method Development (Chemistry)

Biological Chemistry and Food Chemistry

Chemische Festkörper- und Oberflächenforschung

Molecular Chemistry

Physical and Theoretical Chemistry

Polymer Research

Other .....

Humanities

OPTIONAL: Please specify the discipline

Please choose only one of the following:

Ancient Cultures

Non-European Languages and Cultures, Social and Cultural Anthropology, Jewish Studies and Religious Studies

History

Fine Arts, Music, Theatre and Media Studies

Literary Studies

## ABOUT YOU

- Philosophy
- Linguistics
- Theology
- Other .....
- Geosciences (including Geography)  
OPTIONAL: Please specify the discipline  
Please choose only one of the following:
  - Atmospheric Science and Oceanography
  - Geochemistry, Mineralogy and Crystallography
  - Geography
  - Geology and Palaeontology
  - Geophysics and Geodesy
  - Water Research
  - Other .....
- Electrical and System Engineering  
OPTIONAL: Please specify the discipline  
Please choose only one of the following:
  - Construction Engineering and Architecture
  - Electrical Engineering, Computer Science, Systems Engineering
  - Mechanical Engineering and Production Technology
  - Materials Engineering and Materials Science
  - Heat Energy Technology/Process Engineering
  - Other .....
- Mathematics
- Medicine  
OPTIONAL: Please specify the discipline  
Please choose only one of the following:
  - Anaesthesiology
  - Occupational Medicine
  - Biological Psychiatry
  - Biomedical Technology and Medical Physics

## ABOUT YOU

- Dermatology
- Endocrinology, Diabetology
- Developmental Neurobiology
- Medical Biometry, Epidemiology, Medical Informatics
- Nutritional Sciences
- Gynaecology and Obstetrics
- Gastroenterology, Metabolism
- Vascular and Visceral Surgery
- Gerontology and Geriatric Medicine
- Otolaryngology
- Hematology, Oncology, Transfusion Medicine
- Cardiothoracic Surgery
- Human Genetics
- Cardiology, Angiology
- Pediatrics
- Clinical Chemistry and Pathobiochemistry
- Clinical Neurosciences I - Neurology, Neurosurgery, Neuropathology
- Clinical Neurosciences II - Psychiatry, Psychotherapy, Psychosomatics
- Clinical Neurosciences III - Ophthalmology
- Cognitive Neuroscience and Neuroimaging
- Molecular Neurology
- Molecular Neuroscience and Neurogenetics
- Nephrology
- Pathology and Forensic Medicine
- Pharmacology and Toxicology
- Pharmacy
- Physiology
- Pneumology, Clinical Infectiology, Intensive-care medicine
- Public Health, Health Services Research and Community Medicine
- Radiology, Nuclear Medicine, Radiotherapy

## ABOUT YOU

- Radiation Oncology and Biology
- Reproductive Medicine/Biology
- Rheumatology, Clinical Immunology, Allergology
- Systemic Neuroscience and Behaviour
- Orthopaedics, Traumatology
- Urology
- Comparative Neurobiology
- Dentistry, Oral Surgery
- Cellular Neuroscience
- Other .....
- Physics
  - OPTIONAL: Please specify the discipline
  - Please choose only one of the following:
  - Astrophysics and Astronomy
  - Optics, Quantum Optics and Physics of Atoms, Molecules and PlasmasGeo
  - Condensed Matter Physics
  - Statistical Physics, Soft Matter, Biological Physics, Nonlinear Dynamics
  - Particles, Nuclei and Fields
  - Other .....
- Social and Behavioural Sciences
  - OPTIONAL: Please specify the discipline
  - Please choose only one of the following:
  - Education Sciences
  - Psychology
  - Jurisprudence
  - Social Sciences
  - Economics
  - Other .....
- Other discipline: .....



## ABOUT YOU

 **Please select your age interval. \***

Please choose only one of the following:

- <30 years       30-50 years       >50 years

 **Please select your gender. \***

Please choose only one of the following:

- Male       Female       Other