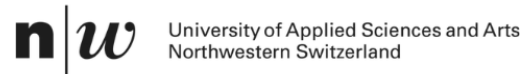


Quantitative assessment of RDM practices 2023



Research Data Management (RDM) practices (Estimated completion time: 5 minutes)

* Mandatory question

Research Data Management (RDM)

Research data refers to a range of digital materials which are acknowledged by the scientific community. This includes, but is not limited to, raw or processed data, software or code, interview records, graphs, etc. RDM encompasses the organization, storage, sharing, and preservation of this research data and code to ensure its accessibility and potential for reuse, whether by you or other researchers.

Purpose of the survey

This survey is a collaborative initiative between DaSCH, Eawag, EPFL, ETHZ, FHNW, and UNIL with the primary objective of gaining insights into your RDM practices. The information gathered will be instrumental in enhancing the institutional RDM services we provide. Some questions only apply to individual organizations.

Use of personal information

No personal information is collected by the members of the initiative. The only personal data collected through the platform SurveyHero is the IP address, which is not visible to the initiative members, and will be deleted by SurveyHero after the closing of the survey. Your answers are shared among the initiative members. In the event of any personal information being inadvertently included by you in your answers, those entries will be promptly deleted.

Consent

Your participation in this survey implies that you understand this disclaimer and provide your consent. The aggregated analysis based on this survey will be shared with our collaborating institutions and will possibly be made publicly available on appropriate online platforms (e.g. data repository). [Contact us](#) for more info on the privacy.

What is your *main* **institutional affiliation**? *

☐ Eawag

☐ EPFL

☐ ETHZ

☐ FHNW

☐ UNIL / CHUV

☐ (Another institution)

What is your main **EPFL affiliation?** *

☐ **CDH** - College of Humanities

☐ **CDM** - College of Management of Technology

☐ **ENAC** - School of Architecture, Civil and Environmental Engineering

☐ **IC** - School of Computer and Communication Sciences

☐ **SB** - School of Basic Sciences

☐ **STI** - School of Engineering

☐ **SV** - School of Life Sciences

☐ **ENT** - Education, Research, Innovation and other Centers

☐ EPFL Research **Facility / Platform**

☐ EPFL **Central Service**

☐ Other EPFL affiliation ...

What is your main **FHNW affiliation?** *

☐ FHNW School of Applied Psychology

☐ FHNW School of Architecture, Construction and Geomatics

☐ Basel Academy of Art and Design FHNW

☐ FHNW School of Life Sciences

☐ Basel Academy of Music FHNW

☐ FHNW School of Education

☐ FHNW School of Social Work

☐ FHNW School of Engineering

☐ FHNW School of Business

☐ Vice Presidium for University Development/Services/other

☐ Other FHNW affiliation ...

What is your main **UNIL / CHUV affiliation**? *

☐ **CHUV** - Centre hospitalier universitaire vaudois

☐ **HEC Lausanne** - Faculté des HEC

☐ **FBM** - Faculté de biologie et de médecine

☐ **FDCA** - Faculté de droit, des sciences criminelles et d'administration publique

☐ **FGSE** - Faculté des géosciences et de l'environnement

☐ **FTSR** - Faculté de théologie et de sciences des religions

☐ **Lettres** - Faculté des lettres

☐ **SSP** - Faculté des sciences sociales et politiques

☐ Other UNIL affiliation ...

What is your main **ETHZ affiliation?** *

☐ D-ARCH

☐ D-BAUG

☐ D-BSSE

☐ D-INFK

☐ D-ITET

☐ D-MAVT

☐ D-MATL

☐ D-BIOL

☐ D-CHAB

☐ D-MATH

<input type="radio"/>	<input type="radio"/>
<input type="radio"/> D-PHYS	<input type="radio"/> D-ERDW
<input type="radio"/> D-HEST	<input type="radio"/> D-USYS
<input type="radio"/> D-MTEC	<input type="radio"/> D-GESS
<input type="radio"/> Other ETHZ affiliation ...	

What is your main **Eawag affiliation?** *

<input type="radio"/> ECO - Aquatic Ecology	<input type="radio"/> SIAM - Systems Analysis, Integrated Assessment and Modelling
<input type="radio"/> FishEC - Fish Ecology and Evolution	<input type="radio"/> UCHEM - Environmental Chemistry
<input type="radio"/> SURF - Surface Waters - Research and Management	<input type="radio"/> UMIK - Environmental Microbiology

☐ **SWW** - Urban Water Management

☐ **ESS** - Environmental Social Sciences

☐ **ENG** - Process Engineering

☐ **UTOX** - Environmental Toxicology

☐ **WUT** - Water Resources and Drinking Water

☐ **SANDEC** - Sanitation, Water and Solid Waste for Development

☐ Eawag - **Administration / Support Departments / Other**

☐

Please, indicate your **institutional affiliation** *

Please, specify your affiliation *

☐ Bioinformatics Competence Centre (BICC)

☐ Blood Transfusion Unit (CTS)

☐ Electron Microscopy Facility (PME)

☐ Jules Gonin Eye Hospital (HOP)

☐ Metabolomics Research Platform (MRP)

☐ School of Medicine (EM)

☐ Swiss Institute of Bioinformatics (SIB)

☐ Unisanté (UNISANTE)

☐ Other

A. Storage & Backup

A1. Where do you **store** your research data / code, even temporarily? *

You can select multiple options.

☐ Institutional / Faculty / Department servers

☐ Other university / External facility servers

☐ Laptop / Tablet

☐ Desktop Computer / Workstation

☐ External HDD / External SSD

☐ Cloud (SWITCHdrive, polybox, Google Drive, OneDrive, ...)

☐ Code sharing platform (GitHub, GitLab, Bitbucket, ...)

☐ *(I don't handle any data / code)*

☐ Other storage solution ...

A2. On which storage solution(s) do you have a collaborative **access** with others to **share data / code**? *

You can select multiple options.

☐ Institutional / Faculty / Department servers

☐ Other university / External facility servers

☐ Laptop / Tablet

☐ Desktop Computer / Workstation

☐ External HDD / External SSD

☐ Cloud (SWITCHdrive, polybox, Google Drive, OneDrive, ...)

☐ Code sharing platform (GitHub, GitLab, Bitbucket, ...)

☐ *(I don't share any data / code)*

☐ Other storage for sharing ...

A3. Where do you **backup** your research data / code? *

You can select multiple options.

☐ Institutional / Faculty / Department servers

☐ Other university / External facility servers

☐ Laptop / Tablet

☐ Desktop Computer / Workstation

☐ External HDD / External SSD

☐ Cloud (SWITCHdrive, polybox, Google Drive, OneDrive, ...)

☐ Code sharing platform (GitHub, GitLab, Bitbucket, ...)

☐ *(I don't backup any data / code)*

☐ Other backup solution ...

A4. **How** do you backup your research data/code?

Select the answer that most closely represents your practice.

☐ Automatically only

☐ Automatically and manually

☐ Manually only

☐ *(I don't backup any data / code)*

☐ Other ...

A5. How frequently do you perform backups?

Select the answer that most closely represents your practice.

☐ Continuous / At least every hour

☐ At least daily

☐ At least weekly

☐ At least monthly

☐ At least yearly

☐ *(I don't backup any data / code)*

☐ Other ...

B. Organization & Documentation

B1. Which kind of **documentation** do you produce to accompany your data / code? *

You can select multiple options.

☐ DMP (Data Management Plan)

☐ README file(s)

☐ Parameter / Input file(s)

☐ Log / Debugging file(s)

☐ Protocol(s)

☐ Codebook / Controlled vocabulary

☐ JupyterLab Notebook / Other data processing scripts

☐ Paper notebook

☐ Wiki / Knowledge base

☐ Templates / Example files

☐ *(I don't document my data / code)*

☐ Other ...

B2. How do you manage **versions** of your data / code? *

You can select multiple options.

☐ **Manually** change file / folder name
(ex. date, version number, ...)

☐ **Built into** specific software
(ex. ELN, LIMS, ...)

☐ **Built into** storage / sharing / backup solution
(ex. cloud change track, sequential snapshots, ...)

☐ **Git**
(or Git-based platform)

☐ **Subversion**
(or Subversion-based platform)

☐ **Mercurial**
(or Mercurial-based platform)

☐ *(I don't know)*

☐ Other ...

B3. Do you follow a **naming convention** for files / folders? *

Select the answer that most closely represents your rules for naming. For a database, consider any guidelines for naming tables, columns, indexes, etc.

☐ **Yes, a **common**** convention, with coworkers / collaborators

☐ **Yes, as **personal**** convention, not used by others

☐ **Yes, a **standard**** convention used by many researchers in my field

☐ **Partially, a **common**** convention, with coworkers / collaborators

☐ **Partially, as **personal**** convention, not used by others

☐ **No, I don't follow any naming convention**

☐ Other ...

B4. Do you **know any metadata standards? ***

☐ Yes

☐ No

☐ *(I don't know what metadata standards are)*

B5. Do you **use any metadata standards? ***

☐ Yes

☐ No

B6. Please, indicate the **exact name of your metadata standard(s)?**

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C. Formats & Software

C1. Do you use / produce open format files or open source code / software? *

For each row, select the answer that most closely represents your practice. *Don't know* may indicate that you are unaware of what open means, or that you don't know how to categorize your formats / software.

	All open	Mostly open	Mostly proprietary	Only proprietary	(Doesn't apply to me)	(Don't know)
Use formats	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Produce formats	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Use code / software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Produce code / software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

C2. What type of **software / platform** do you use while working with data / code? *

You can select multiple options.

☐ RSpace, SLIMS, openBIS, eln.epfl.ch, or other **ELN** or **LIMS**

☐ VisualStudio, PyDev, RStudio, or other **IDE**

☐ RedCap, Qualtrics, Google Forms, or other **surveying platform**

☐ GitHub, GitLab, Bitbucket, or other **code sharing** platform

☐ Matlab, Octave, Jupyter Notebooks, or other **computing environment**

☐ OpenRefine, DataWrangler, Trifacta, or other tools for data **cleaning** or **preprocessing**

☐ Amnesia, μ -Argus, ARX, or other data **anonymization** tool

☐ Slurm, LSF, Kubernetes, or other **Computational Resource Management** or Scheduling tool

☐ Microsoft Excel, Google Sheet, LibreOffice Calc, or other **spreadsheet** software

☐ Origin, Tableau, Gnuplot, or other graph **plotting** and data **visualization** software

☐ MySQL, Azure SQL, Oracle RDBMS, or other **database** software or system

☐ Software or tool **developed in-house** with python, C, javascript, R, or other programming language

☐ Other ...

C3. Do you use / need a specific **tool for writing DMPs (Data Management Plans)? ***

Ex. of such tools are: DMPonline, Argos, DS Wizard, DMP Opidor, ...

☐ *(No need of writing a DMP)*

☐ I use / need one of these tools

☐ I need more than a word processor, but I don't know these tools

☐ A word processor can fulfil my needs

☐ Other ...

D. Governance & Compliance

D1. **With whom** do you share your research data / code? *

You can select multiple options.

☐ Only someone of my research group / coworkers

☐ My entire research group / coworkers

☐ Other partners / collaborators in my institution

☐ Academic partners / collaborators in other institution(s)

☐ Industrial / Commercial partners / collaborators

☐ *(I don't share any data / code)*

☐ Other ...

D2. What is your **role**? *

Select your role or status that is closer.

<input type="radio"/> Bachelor / Master student	<input type="radio"/> Doctoral student / Doctoral assistant
<input type="radio"/> Scientific Collaborator / Postdoc Researcher	<input type="radio"/> Professor (ex. Tenure Track / Adjunct / Visiting / MER / Associate / Full / Emeritus) / Lecturer
<input type="radio"/> Data Manager / Data Scientist	<input type="radio"/> IT / Other technical staff
<input type="radio"/> Administrative staff / Higher management	<input type="radio"/> <input type="text" value="Other ..."/>

D3. In average, how many **hours of work do you put **every week** into managing data / code? (Estimate) ***

Consider all work done to collect, generate, process, analyse, document, share, curate, archive, etc. your data or code.

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D4. Who sets for you the rules for managing your data / code? *

Select the answer that most closely represents your practice.

☐ *(No rules are implemented)*

☐ **Myself**

☐ **Principal Investigator** (PI) / Supervisor

☐ **Data manager** of group / unit / consortium

☐ **External academic collaborator** (in other research group or other university, hospital, ...)

☐ **External facility** / Commercial partner

☐ No particular person, I follow the **historical conventions** of my group / unit / consortium

☐ **Institution** via guidelines / policy

☐ *(Don't know / Not sure)*

☐ Other ...

D5. Do you work with **personal / sensitive data? And has your project undergone an official **ethics review**? ***

Select the answer that most closely represents your practice.

☐ **Yes.** Project in ethics review process or approved

☐ **Yes.** Unsure if ongoing project underwent an ethics review

☐ **Yes.** But not requesting any ethics review

☐ **Not yet.** Will need an ethics review in the future

☐ **Unsure** if my project / work needs an ethics review

☐ *(No personal / sensitive data)*

☐ Other ...

E. Publication & Preservation

E1. Where do you **publish / disseminate** your data / code (or plan to)? *

You can select multiple options.

☐ *(Unsure where, but I plan to)*

☐ **Institutional / Faculty server** or webpage

☐ **Data repository**
(ex. DaSCH, EnviDat, ERIC, ETH Research Collection, MaterialsCloud, SWISSUBase, Yareta, Zenodo,)

☐ **Data / Code journal**
(ex. Data in Brief, JOSS, ...)

☐ **Publisher's platform**
(ex. supplementary material)

☐ **Public database / databank**
(ex. Genbank, RECIFS, ...)

☐ **Code sharing platform**
(ex. Bitbucket, GitHub, GitLab, ...)

☐ **Data archive**
(ex. ACOUA, DaSCH, ETH Data Archive, OLOS, SWISSUbase, ...)

☐ *(Never done and not going to)*

☐ Other

☐

Other ...

E2. Under what **license(s)** do you publish / disseminate your data / code (or plan to)? *

You can select multiple options.

<input type="checkbox"/> CC0 (Creative Commons Universal)	<input type="checkbox"/> CC-BY (Creative Commons Attribution)
<input type="checkbox"/> CC-BY-NC (Creative Commons Attribution-NonCommercial)	<input type="checkbox"/> ODC-By (Open Data Commons Attribution)
<input type="checkbox"/> BSD (Berkeley Software Distribution)	<input type="checkbox"/> MIT License
<input type="checkbox"/> GPL / LGPL (GNU / Lesser General Public License)	<input type="checkbox"/> <i>(Don't know what licenses are)</i>
<input type="checkbox"/> Other ...	

E3. Where do you **archive / preserve** your data / code for the long-term (or plan to)? *

You can select multiple options.

☐ *(Unsure where, but I plan to)*

☐ **Data repository**
(ex. DaSCH, EnviDat, ERIC, ETH Research Collection,
MaterialsCloud, SWISSUbase, Yareta, Zenodo,)

☐ **Public database / databank**
(ex. Genbank, RECIFS, ...)

☐ **Data archive**
(ex. ACOUA, DaSCH, ETH Data Archive, OLOS, SWISSUbase, ...)

☐ **Institutional / Faculty server** or webpage

☐ **Data / Code journal**
(ex. Data in Brief, JOSS, ...)

☐ **Publisher's platform**
(ex. supplementary material)

☐ **Code sharing platform**
(ex. Bitbucket, GitHub, GitLab, ...)

☐ *(Never done and not going to)*

☐ Other ...

F. Support & Training

F1. Which EPFL service / support have you consulted for these various data / code management topics? *

[illegible]

Budget data
management

☐☐☐☐☐☐☐☐

Organize /
Document

☐☐☐☐☐☐☐☐

Code
sharing /
versioning

☐☐☐☐☐☐☐☐

Licenses /
Copyright

☐☐☐☐☐☐☐☐

Metadata /
Standards

☐☐☐☐☐☐☐☐

Store /
Backup

☐☐☐☐☐☐☐☐

Archiving /
Preservation

☐☐☐☐☐☐☐☐

F1. Which **service / support have you consulted for these various data / code management topics? ***

[illegible]

Document

**Code
sharing /
versioning**

☐
☐
☐
☐
☐
☐
☐
☐

**Licenses /
Copyright**

☐
☐
☐
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☐
☐

**Metadata /
Standards**

☐
☐
☐
☐
☐
☐
☐
☐

**Store /
Backup**

☐
☐
☐
☐
☐
☐
☐
☐

**Archiving /
Preservation**

☐
☐
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F1. Which **ETHZ service / support have you consulted for these various data / code management topics? ***

	ETH Library RD M support	Scientific IT	ETH Office	ETH	ETH Legal	Central /	Data Stewardshi p Network at ETH	(My
(No need /								

[illegible]

□ □ □ □ □ □ □ □ □ □

[illegible]

□ □ □ □ □ □ □ □ □ □

[illegible]

Survey / Form
platforms

☐☐☐☐☐☐

Anonymize /
Data masking

☐☐☐☐☐☐

Budget data
management

☐☐☐☐☐☐

Organize /
Document

☐☐☐☐☐☐

Code sharing
/ versioning

☐☐☐☐☐☐

Licenses /
Copyright

☐☐☐☐☐☐

Metadata /
Standards

☐☐☐☐☐☐

Store /
Backup

☐☐☐☐☐☐

Archiving /
Preservation

☐☐☐☐☐☐

F1. Which **service / support have you consulted for these various data / code management topics? ***

*(No need /
Nobody)*

**Services from
Lib4RI**

RDM support

**IT Services / IT
Supporter**

Intranet

(My colleagues)

**Data
Management
Plan**

☐☐☐☐☐☐

Publish data /
code

☐☐☐☐☐☐

Survey / Form
platforms

☐☐☐☐☐☐

Anonymize /
Data masking

☐☐☐☐☐☐

Budget data
management

☐☐☐☐☐☐

Organize /
Document

☐☐☐☐☐☐

Code sharing
/ versioning

☐☐☐☐☐☐

Licenses /
Copyright

☐☐☐☐☐☐

Metadata /
Standards

☐☐☐☐☐☐

Store /
Backup

☐☐☐☐☐☐

Archiving /
Preservation

☐☐☐☐☐☐

E1 Which **service / support have you consulted for these various data / code management topics? ***

7. Which **service / support** have you consulted for these various data / code management topics: "

[illegible]

Document

Code sharing
/ versioning

☐☐☐☐☐☐☐☐☐

Licenses /
Copyright

☐☐☐☐☐☐☐☐☐

Metadata /
Standards

☐☐☐☐☐☐☐☐☐

Store /
Backup

☐☐☐☐☐☐☐☐☐

Archiving /
Preservation

☐☐☐☐☐☐☐☐☐

F2. What **type of support are you most receptive to? ***

Select maximum 3 options.

☐

On-site training

☐

Remote training

☐ e-Learning training platform

☐ Webpage / Online documentation

☐ Remote consulting by email

☐ Remote consulting by video conference

☐ In-person 1-to-1 consulting

☐ In-person group / lab consulting

☐ Infopoint / Physical help desk

☐ Other ...

F3. Please, share with us your **suggestions for RDM support or training**