



Welcome to the NFDI4Ing Community Survey 2023.

Engineering sciences play a key role in developing solutions for the technical, environmental, and economic challenges of our modern society. FAIR data, data quality and research data management (RDM) are therefore becoming increasingly important in order to document the associated research processes and to make research results and data accessible in a transparent and sustainable manner.

The way we do research is changing. NFDI4Ing wants to accompany you in this process of change. In order to best support you in managing your research data, we would like to ask for your help and feedback.

Your answers will help us to improve our tools and services according to your needs and wishes regarding the handling of research data.

Filling out the survey will take about 10 - 15 minutes.

We would appreciate it if you could share the survey link with your colleagues.

If you have any questions about the survey, please contact k.wermbter@tubraunschweig.de (Katja Wermbter).

Thank you for your support and your participation in this survey.





Section A: Research Data Management (RDM): Knowledge and application

A1. First, it is about your knowledge of different aspects of research data management (RDM) and their fields of application. Which statements are true? (Multiple selection possible, mark as applicable)

		Systematic ally applied by me
FAIR principle	les	
Versioning of software & documents (e.g. with Git, Subversion	on)	
Documentation for re-u	ise	
Collecting metada	nta	
Open data forma	ats	
Licensing (e.g. of research date	ta)	
Policies (e.g. guidelines / data policie	es)	
Publication / Data repositori	ies	
Archivi	ng	
Data management pl	an	
Metadata standar	ds	
Persistent identifiers for referencing and citation (e.g. DC	OI)	
A2. In which area and how did you acquire skills in Ri selection possible, mark as applicable)FAIR princ	_	
	Self-study	
	Informal briefing	
	Workshops / Lectures	
A3. In which area and how did you acquire skills in R	_	
selection possible, mark as applicable) Versioning	of software &	
documents (e.g. with Git, Subversion)	Self-study	
	Informal briefing	
	Workshops / Lectures	
A4. In which area and how did you acquire skills in Ri selection possible, mark as applicable)Documentar	_	
•	Self-study	
	Informal briefing	
	Workshops / Lectures	
A5. In which area and how did you acquire skills in R	•	
selection possible, mark as applicable)Collecting n	netadata Self-study	
	Informal briefing	
	Workshops / Lectures	



K Lim	neSurvey		
A6.	In which area and how did you acquire skills in Rl	DM? (Multiple	
	selection possible, mark as applicable)Open data f	•	
	5011011 p 50001010, 1111111 us upp-101101010 (p 011 unum 1	Self-study	
		Informal briefing	
		Workshops / Lectures	
47.	In which area and how did you acquire skills in Rl		
17.	selection possible, mark as applicable)Licensing (e	` •	
	selection possible, mark as applicable) Electising (c	Self-study	
		Informal briefing	
		Workshops / Lectures	
. 0	In which area and how did you accuing skills in Di		
A8.	In which area and how did you acquire skills in Rl selection possible, mark as applicable)Policies (e.g policies)	•	
		Self-study	
		Informal briefing	
		Workshops / Lectures	
A 9.	In which area and how did you acquire skills in Rl	•	
17.	selection possible, mark as applicable)Publication	` •	
	selection possible, mark as applicable)1 ubileation	Self-study	
		Informal briefing	
		Workshops / Lectures	
A10.	In which area and how did you acquire skills in D		
A10.	In which area and how did you acquire skills in RI selection possible, mark as applicable)Archiving	•	
		Self-study	
		Informal briefing	
		Workshops / Lectures	
A11.	In which area and how did you acquire skills in Rl	-	
	selection possible, mark as applicable)Data manag		
		Self-study	
		Informal briefing	
		Workshops / Lectures	
A12.	In which area and how did you acquire skills in RI selection possible, mark as applicable) Metadata st	•	
		Self-study	
		Informal briefing	
		Workshops / Lectures	
A13.	In which area and how did you acquire skills in RI selection possible, mark as applicable)Persistent Io Referencing and Citation (e.g. DOI)	` •	
	Mereneing and Chanon (e.g. DOI)	Self-study	
		Informal briefing	\vdash
		Workshops / Lectures	\vdash
A14.		Workshops / Lectures	
	In which area of RDM are you aware of training of institution? (Multiple selection possible, mark as a	• •	
	FAIR principles		
	• •	Informal briefing	
		Self-study	
			_



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Ш	I.		II		11		

Self-study

Workshops / Lectures

	Workshops / Lectures	
A15.	•	
113.		
	In which area of DDM are you aware of training apportunities at your	
	In which area of RDM are you aware of training opportunities at your	
	institution? (Multiple selection possible, mark as applicable)	
	Versioning of software & documents (e.g. with Git, Subversion)	
	Informal briefing	
	Self-study	
	Workshops / Lectures	
A16.		
110.		
	T. L'A CDDM	
	In which area of RDM are you aware of training opportunities at your	
	institution? (Multiple selection possible, mark as applicable)	
	Documentation for re-use	
	Informal briefing	
	Self-study	
	Workshops / Lectures	
A17.		
11/.		
	In which are of DDM are some of Amining and articles of areas	
	In which area of RDM are you aware of training opportunities at your	
	institution? (Multiple selection possible, mark as applicable)	
	Collecting metadata	
	Informal briefing	
	Self-study	
	Workshops / Lectures	
A18.		
110.		
	In which area of DDM are you arrows of training appointments at your	
	In which area of RDM are you aware of training opportunities at your	
	institution? (Multiple selection possible, mark as applicable)	
	Open data formats	
	Informal briefing	
	Self-study	
	Workshops / Lectures	
A19.		
117,		
	In which area of DDM are you aware of twaining annoutunities of warm	
	In which area of RDM are you aware of training opportunities at your	
	institution? (Multiple selection possible, mark as applicable)	
	Licensing (e.g. of research data)	
	Informal briefing	





In which area of RDM are you aware of training opportunities at your institution? (Multiple selection possible, mark as applicable)

	Policies (e.g. guidelines / data policies)		
		Informal briefing	
		Self-study	
		Workshops / Lectures	
A21.			
	In which area of RDM are you aware of training op institution? (Multiple selection possible, mark as ap	-	
	Publication / Data repositories		
	T domestically Dates Toposition	Informal briefing	
		Self-study	
		Workshops / Lectures	
A22.			
	In which area of RDM are you aware of training op institution? (Multiple selection possible, mark as ap	-	
	Archiving		
		Informal briefing	
		Self-study Workshops / Lectures	
A23.		Workshops / Lectures	
120.			
	In which area of RDM are you aware of training op institution? (Multiple selection possible, mark as ap	•	
	Data management plan		
	Sum munugement pum	Informal briefing	
		Self-study	
		Workshops / Lectures	
A24.			
	In which area of RDM are you aware of training op institution? (Multiple selection possible, mark as ap	-	
	Metadata standards		
		Informal briefing	
		Self-study	
		Workshops / Lectures	





In which area of RDM are you aware of training opportunities at your institution? (Multiple selection possible, mark as applicable)

	Persistent Identifier for Referencing and Citation (e.g. DOI)	
	Informal briefing	
	Self-study	
	Workshops / Lectures	
	Do you yourself teach in the field of RDM? (e.g. within the framework of workshops/lectures)	
	No	
	Yes	
t	ion B: Research Data Management (FDM): Need for services ar	ıd sup
	Do you know NFDI4Ing?	
	No	
	Yes, I have heard of it before.	
	Yes, I am a user.	
	Yes, I am actively involved in NFDI4Ing or NFDI.	
	Did you already receive support from NFDI4Ing in dealing with research data or did you use services of NFDI4Ing?	
	No	
	Yes	
	Which tools or services by NFDI4Ing have you already used? (Multiple selection possible, mark as applicable)	
	Betty's (Re)SearchEngine	
	Terminology Service	
	Data Collections Explorer	
	RMDO (Planung, Implementation und Organisation von FDM)	
	Education Repository	
	Journal (ing.grid)	
	NFDI4Ing Data Quality Metrics	
	Mission Statement	
	NFDI4Ing Knowledge-Base	
	Jarves	
	NFDI4Ing FAQ	
	Alex' Action Items	
	NFDI4Ing Special Interest Group (S.I.G.)	
	Seed Funds	
	NFDI4Ing Community Meetings	
	other	
	don't know	
	Which other tools or services by NFDI4Ing have you already used?	

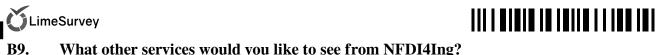




B5. Now we would like to know which of the NFDI4Ing's partner projects or featured tools/platforms you have already used?

	Coscine	
	Kadi4Mat	
	NFDI4Ing GitLab (NFDI4Ing is using the GitLab instance of the RWTH Aachen)	
	re3data	
	don't know	
B6.	In what areas of research data management (RDM) would you like to	
200	see support? (Multiple selection possible, mark as applicable)	
	No support needed	
	Overall process of RDM	H
	RDM procedure (e.g. plan RDM in the context of a research project)	
	Data collection	H
	Data preparation/analysis	H
	Data organisation	\Box
	Data standardisation	\Box
	Data publication	
	Data sharing (e.g. with colleagues)	
	Metadata collection	
	Data archiving	
	Data reuse	
	no answer	
B7.	What type of support did you receive or what type of service did you	
	use?	
	Organisation and Technology	
	Exchange and Events	
	Further education/training and counselling	
	no answer Other	
	Oulei	
	Other	
B8.	What services would you like to see from NFDI4Ing? (Multiple	
	selection possible, mark as applicable) I do not need any services	
	Advice on general questions regarding the handling of research data	H
	Advice on general questions regarding the nanding of research data Advice on publishing and citing research data	H
	Advice on technical issues (e.g. metadata, standards, long-term archiving)	H
	Advice on legal issues (e.g. limitations on access, handling of sensitive data, use of licenses)	H
Assistar	nce with specific matters (e.g., submitting a manuscript to a journal that specifies publication of research data).	H
	sistance in the creation of a data management plan, if one is requested by the funding agency	H
1 100	A secure and reliable storage space for my research data	H
	Other - in the next step you have the opportunity to specify your needs more precisely	H
	The second of th	





Б9.	what other services would you like to see from NFD14ing?	
Sect	tion C: Research Data Management (RDM): Data and Software	
C1.	Do you know and use software (online or offline) to support research data management?	
	No, I am not aware of any of such software.	
	Yes, I am aware of such software, but I do not use it.	
	Yes, I use such software.	
C2.	What software (online or offline) do you know to support research	
5_	data management?	
C3.	What software (online or offline) do you use to support research data	
	management?	
C4.	Where do you store your research data? (Multiple selection possible,	
	mark as applicable)	
	Private computer	
	Office/Work computer	
	Server in the institute (or equivalent)	
	Server of the university (parent institution)	
	External at a scientific institution	
	Externally with a commercial provider	
	no answer	
C5.	Where do you store your research data in addition to the previously	
	mentioned? (Multiple selection possible, mark as applicable)	
	Electronic storage (e.g. USB memory sticks, flash memory cards such as SD cards)	
	Optical storage (e.g. CD, DVD, BluRay)	
	Magnetic storage (Magnetic tape, Magnetic cards, Floppy Disk)	
	Photographic storage (e.g. Microform, Photographic paper)	
	no answer	





Section D: Research Data Management (RDM): Work Flow and Strategy

projects?	AT T
	No, I was not aware of this possibility
	No, I do not plan to do it in the near future
	No, but I intend to
	Ye
Are you aware of any r	esearch data repositories?
	No.
	Yes, multidisciplinary repositories (e.g. Zenodo, Figshare
	Yes, subject specific repositorie
	Yes, institutional repository (provided by your university
Have you ever used dat	a from a research data repository yourself?
	No, I was not aware of this possibility
	No, I do not plan to do it in the near future
	No, but I intend to do
	Ye
	be willing to publish your research data in a
repository?	
	No, I do not plan to do it in the near future
	Ye
Have you already publi repository?	ished data yourself using a research data
•	No, I was not aware of this possibility
	No, I do not plan to do it in the near future
	No, I do not plan to do it in the near future No, but I intend to Ye
	No, but I intend to Ye why you have not yet published research data in
	No, but I intend to Ye
	No, but I intend to Ye why you have not yet published research data in selection possible, mark as applicable)
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repositories? (Multiple Lack Not allow Not p Did you yourself alread	No, but I intend to Ye why you have not yet published research data in selection possible, mark as applicable) No data generated or available Data not relevant of knowledge about the exact process or lack of opportunit Effort for data preparation too hig wed by my institution (e.g. restrictions due to data protection ermitted by the client (e.g. restrictions due to data protection Publication is not require Publication has no added value no answer the submitt or provide research data in manuscript to a journal?
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cepositories? (Multiple Lack Not allow Not p Did you yourself alread combination with your	No, but I intend to Yee why you have not yet published research data in selection possible, mark as applicable) No data generated or available Data not relevant to of knowledge about the exact process or lack of opportunity. Effort for data preparation too high wed by my institution (e.g. restrictions due to data protection ermitted by the client (e.g. restrictions due to data protection Publication is not required Publication has no added value no answer and the submitt or provide research data in manuscript to a journal? No, I was not aware of this possibility. No, but I intend to Yee th data yourself yet? No, I was not aware of this possibility. No, I was not aware of this possibility.





Section E: Research Data Management (RDM): Governance concepts in the Engineering Sciences

Does you	ur institution have recommendations or rules for handling n data?
10000101	Yes
	No, but it's planned.
	No, I don't know.
Does you	ur institution offer you support and advice on how to handle
	Yes
	No, but it's planned.
	No, I don't know.
Does you	ur institution have a data steward?
of their data. I	e experts in research data management. They are employed at research institutions to support researchers in th Decentralised or embedded data stewards work at the faculty, institute or project level and help researchers w . Data stewards' tasks primarily include consultation, training, needs assessment and requirements engineering definition from https://forschun
	Yes
	No, but it's planned.
	No, I don't know.
Does you	ur institution offer further training on RDM?
	Yes
	No, but it's planned.
	•
	No, I don't know. Ind of support is available at your institution for the ment of research data?
	No, I don't know.
manager In which	No, I don't know.
manager In which	No, I don't know. Ind of support is available at your institution for the ment of research data? In way would you like to see more support from your on? (Multiple selection possible, mark as applicable) Support from e.g. Data Stewards Formal policies for handling research data Further Education General software service within the framework of research data management
manager In which	No, I don't know. Ind of support is available at your institution for the ment of research data? In way would you like to see more support from your on? (Multiple selection possible, mark as applicable) Support from e.g. Data Stewards Formal policies for handling research data Further Education General software service within the framework of research data management Software service for publications
manager In which	No, I don't know. Ind of support is available at your institution for the ment of research data? In way would you like to see more support from your on? (Multiple selection possible, mark as applicable) Support from e.g. Data Stewards Formal policies for handling research data Further Education General software service within the framework of research data management Software service for publications Software service for archiving
manager In which	No, I don't know. Ind of support is available at your institution for the ment of research data? In way would you like to see more support from your on? (Multiple selection possible, mark as applicable) Support from e.g. Data Stewards Formal policies for handling research data Further Education General software service within the framework of research data management Software service for publications
manager In which	No, I don't know. Ind of support is available at your institution for the ment of research data? In way would you like to see more support from your on? (Multiple selection possible, mark as applicable) Support from e.g. Data Stewards Formal policies for handling research data Further Education General software service within the framework of research data management Software service for publications Software service for archiving Software service for versioning (e.g. Gitlab)



Section F: Socio-economic information

Which engineering subject area do you belong to? (DFG Classification of Scientific Disciplines)	
DFG 41 (Mechanical and Industrial Engineering)	
DFG 42 (Thermal Engineering/ Process Engineering)	
DFG 43 (Materials Science and Engineering)	
DFG 44 (Computer Science, Systems and Electrical Engineering)	
DFG 45 (Construction Engineering and Architecture)	
no answer	
Which engineering review board do you belong to? (DFG	
Classification of Subject Areas)	
[401] Production Technology	
[402] Mechanics and Constructive Mechanical Engineering	Ī
[403] Process Engineering, Technical Chemistry	
[404] Fluid Mechanics, Technical Thermodynamics and Thermal Energy Engineering	
[405] Materials Engineering	
[406] Materials Science	
[407] Systems Engineering	
[408] Electrical Engineering and Information Technology	
[409] Computer Science	
[410] Civil Engineering and Architecture	
no answer	
In which field of activity do you mainly work?	_
Research	
Teaching and Further Education	
Administration	
Library Services and Infrastructure	
Private Enterprise	
no answer	
In which area of activity do you work second-order?	
Research	
Teachung and Further Education	
Administration	
Library Services and Infrastructure	
Private Enterprise	
no answer	



Which status group do you belong to?					
	Student Assistant				
	PhD student / Research Assistant				
	Postdoc				
	Associate Professor / Private Lecturer				
	Junior Professorship				
	Professor				
	Research Management				
	no answer				
	Other				
	Other				
	How many years have you been working in research?				
	< 3 years	\vdash			
	3 to 6 years				
	6 to 10 years				
	> 10 years				
Which facility or institution do you belong to?					
	University (of Technology)				
	Technical University				
	University of Applied Sciences				
	Non-university research institution				
	Agency				
	Company (Economy)				
	no answer				
In which federal state is your institution located? (If applicable, this					
	does not mean the federal state of the head office)				
	Baden-Württemberg	\vdash			
	Bavaria	\vdash			
	Berlin	\vdash			
	Brandenburg	\vdash			
	Bremen				
	Hamburg				
	Hesse				
	Mecklenburg–Western Pomerania				
	Lower Saxony				
	North Rhine-Westphalia				
	Rhineland-Palatinate				
	Saarland				
	Saxony				
	Saxony-Anhalt				
	Schleswig-Holstein				
	Thuringia				
	is not located in Germany				
	no answer				



F10.

F9.	What age	group do	you be	long to?
-----	----------	----------	--------	----------

When were you born? Please state your year of birth.

18 to 24 years 25 to 30 years 30 to 35 years 35 to 40 years 40 to 45 years > 45 years	-1-
female male non-binary	

no answer

F11. Please indicate your gender.

Thank you very much for your participation in our community survey. We will publish the results of the survey on the NFDI4Ing website.

In case you want to get notified about the results, please consider subscribing for our newsletter.