



FID BAUdigital - Survey on subject-specific open access and research data management

The FID BAUdigital community survey on the topic of "Open Access and Research Data"

Welcome!

This survey of the **Specialized Information Service BAUdigital** (<http://fid-bau.de>) addresses the publishing of scientific texts and research data in open access as well as the management of research data by scientists in the disciplines of **civil engineering, architecture and urban studies**.

The Specialized Information Service BAUdigital will establish a web service platform as a central point of contact, providing subject-specific services for the disciplines of civil engineering, architecture and urban studies. Our media and information services will focus on digital methods and technologies in the construction industry.

The project has been funded by the German Research Foundation (DFG) since 2020. Its cooperation partners are the [University Library Braunschweig](https://www.tu-braunschweig.de/en/ub) (<https://www.tu-braunschweig.de/en/ub>), the University and State Library Darmstadt (<https://www.ulb.tu-darmstadt.de/service/start/index.en.jsp>), TIB – Leibniz Information Centre for Science and Technology (<https://www.tib.eu/en/>) and the Fraunhofer Information Center for Regional Planning and Building Construction (<https://irb.fraunhofer.de/>).

This survey aims to **identify the subject-specific publication cultures and needs** of the disciplines involved in the FID BAUdigital in order to develop differentiated services for the research community. What are the subject-specific desiderata, e.g. with regard to information, consulting and service infrastructures or suitable open access distributions? Are researchers willing to publish research data FAIR and openly?

Answering the questionnaire will take **10 to 15 minutes** and cover three topics: Publishing in Open Access, Publishing Research Data and Research Data Management, and established support services for publishing research results and data.

With your help and answers, you can actively shape the upcoming services of the FID BAUdigital. Based on the survey, our open access and publication services as well as our offers for research data management and curation will be built up in demand-oriented way for the involved community.

If you have any questions about this survey or the FID BAUdigital, please email us: k.wermbter@tu-braunschweig.de (Katja Wermbter) or info@fid-bau.de (contact & support FID BAUdigital)

Thank you very much for your support and participation!



There are 33 questions in this survey.

General information

First, we would like to know some general information about you and your professional affiliation within our community.

Which discipline do you belong to? *

🗳️ Choose one of the following answers

Please choose **only one** of the following:

- civil engineering (includes: structural engineering, construction informatics and construction operations)
- architecture (includes: architecture, history of building and construction, building research, resource economics in construction)
- urbanism (includes: urban planning/urban development, spatial planning, traffic and infrastructure planning, landscape planning)

Which status group do you belong to? *

❗ Choose one of the following answers

Please choose **only one** of the following:

- professor
- associate professor
- assistant professor (e.g. tenure track)
- postdoc
- PhD student

Other:

In which professional field do you mainly work? *

❗ Check all that apply

Please choose **all** that apply:

- research
- teaching/apprenticeship
- economy/industry

Other:

How many years have you been working in the field of research?

Only answer this question if the following conditions are met:

Answer was at question '3 [A3]' (In which professional field do you mainly work?)

❗ Check all that apply

Please choose **all** that apply:

- 3 to 6 years
- > 6 years
- > 10 years
- prefer not to say

Which university or institution do you belong to? *

❗ Choose one of the following answers

Please choose **only one** of the following:

- (Technical) University
- Technische Hochschule (university focusing on engineering sciences)
- Fachhochschule (University of Applied Sciences)
- non-university research institution
- company (economy / industry)
- Other

In which region is your university/institution located? Please state the first two digits of the postal code.

❗ Only numbers may be entered in this field.

Please write your answer here:

What age group do you belong to?

📌 Check all that apply

Please choose **all** that apply:

- < 30 years
- between 30 and 45 years
- between 46 and 60 years
- > 60 years
- prefer not to say

Awareness of Open Access

The first section of our survey focuses on scientific publishing in open access. First of all, we would like to know your opinion as a representative of your discipline: How common is open access publishing in your field?

Open Access has long been a catchword/term in science, but its meaning is defined differently. What does Open Access mean in your understanding?

📌 Check all that apply

Please choose **all** that apply:

- any freely accessible, free information on the Internet
- any freely accessible text, available free of charge, on the Internet
- any free, open and permanent access to scientific texts on the Internet
- any free, open and permanent access to scientific research data on the Internet

Please share with us your personal perception: How much is open access publishing in your discipline ...

Please choose the appropriate response for each item:

	... known as a form of publication	... used as a form of publication	... appreciated as a form of publication	... the accepted common form of publication
not at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
little	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
occasionally	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
significantly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
very significantly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Unter "Open Access" verstehen wir im Folgenden "den freien, kostenlosen und dauerhaften Zugang zu wissenschaftlichen Informationen im Internet".

Are there any relevant open access journals or publishers in your discipline, i.e. journals or publishers which are freely accessible and free of charge (for its readers)?

🗳️ Choose one of the following answers

Please choose **only one** of the following:

- yes
- no
- I don't know

You answered with "yes." Can you give examples?

Only answer this question if the following conditions are met:

Answer was 'yes' at question '10 [B3]' (Are there any relevant open access journals or publishers in your discipline, i.e. journals or publishers which are freely accessible and free of charge (for its readers)?)

Please write your answer here:

Publication behavior with regard to Open Access

Based on the next questions, we would like to learn more about your publishing behavior with regard to Open Access and your motivations for or against it.

Have you already published open access?

🗳️ Choose one of the following answers

Please choose **only one** of the following:

yes

no

How often have you chosen the following forms of publication?

Please distinguish between primary publication (submission of a publication that has not yet appeared anywhere else) and self archiving (submission of a publishing publication that has already appeared).

Only answer this question if the following conditions are met:

Answer was 'yes' at question '12 [C1]' (Have you already published open access?)

Please choose the appropriate response for each item:

	never	seldom	occasionally	often	very often
primary publication OA-only (fee/article processing charges required)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
primary publication OA-only (free of charge)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
primary publication hybrid/Open Choice (that is, both print and Open Access)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
self archiving OA-only (fee/article processing charges required)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
self archiving OA-only (free of charge)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Which types of publications have you published open access so far?

Only answer this question if the following conditions are met:

Answer was 'yes' at question '12 [C1]' (Have you already published open access?)

❗ Check all that apply

Please choose **all** that apply:

- open access books (monographs, anthologies, handbooks, ...)
- preprints
- journal articles
- conference papers
- (conference) poster presentations
- grey literature (working papers, techn, report, institute publications)
- visual data
- 3D data
- Other:

What have been reasons for you to publish Open Access?

Only answer this question if the following conditions are met:

Answer was 'yes' at question '12 [C1]' (Have you already published open access?)

❗ Check all that apply

Please choose **all** that apply:

- fast, worldwide and mobile availability
- increased visibility and easy to find on the Internet
- visibility beyond the specialized community
- higher citation frequency
- better reusability through free licenses
- support of the open access idea
- requirements with research funding regulations (third-party funding)
- open access publication fees were covered
- strategic decisions (e.g. due to OA policy of the university, by OA strategy of the state)

What are reasons for you not to publish open access?

Only answer this question if the following conditions are met:

Answer was 'no' at question '12 [C1]' (Have you already published open access?)

🗨️ Check all that apply

Please choose **all** that apply:

- general unawareness of what open access is
- uncertainty regarding the legal situation
- there is a lack of information and support services
- advantages of an open access publication are unknown
- increased effort to obtain information on copyright and usage rights
- lack of recognized journals/publishers (lack of peer review, no impact factor)
- lack of reputation of OA publications in general
- remuneration is missing
- publication costs are too high

Other:

Publication of research data and research data management

The second section of our survey addresses specifically the publishing of research data, the use of subject-specific terminology, and the management of research data.

Which types of data do you generate or use on a regular basis?

🗨️ Check all that apply

Please choose **all** that apply:

- structured 2D/3D models (CAD, BIM, CIM, GIS data, etc.)
- 2D/3D geometry data (laser scans, photogrammetry/SfM models, etc.)
- data for digital printing/robot control (CNC data, paths, etc.)
- VR/AR environments, game engine formats (Unity, Unreal, etc.)
- software development, code, scripts, visual programming language (Grasshopper, Dynamo, etc.), libraries
- AI training datasets
- teaching content for internal training (tutorials, manuals, etc.)
- continuous data sources (weather data, sensor data, etc.)
- raw data, comparative data (traffic data, measurement data, simulation results, etc.)
- objects from collections / estates / exhibitions (pictures, plans, models, AV media)
- subject-specific free images and graphics e.g. from / for publications
- text sources
- data sheets, material properties

Other:

"Research data include, but are not limited to, measurement data, laboratory values, audiovisual information, texts, survey data, objects from collections, or samples that are created, developed, or evaluated in the course of scientific work. Methodological test procedures, such as questionnaires, software, and simulations, can also represent central results of scientific research and should therefore also be included under the term research data." (Translated excerpt of "Leitlinien zum Umgang mit Forschungsdaten" der DFG 2015)

In which file formats do the research data you generate or use typically exist, and can you name standard or exchange formats commonly used for them?

🗨 Comment only when you choose an answer.

Please choose all that apply and provide a comment:

2D/3D data (e.g. DXF/DWG, PLN, IFC, STL)

geometry data (e.g. OBJ)

table data (e.g. CSV, TSV, SPSS portable)

text (e.g. TXT, HTML, RTF)

image (e.g. TIFF, JPEG, PNG, GIF)

generalized formats (e.g. XML, RDF)

AV media (e.g. MP4, MOV, AVI, WebM)

Other:

Which (online) databases (e.g. International Architecture Database, BAUFO, RSWB®plus) or datasets do you use for your research (both digital and those whose digitization is still pending, e.g. slide/plan collections, material databases)?

Please write your answer here:

Which role does German subject-specific terminology play in your discipline?

🗳️ Choose one of the following answers

Please choose **only one** of the following:

- it plays no role
- it plays a minor role
- it plays an average role
- it plays an important role
- it plays a prominent role

Which (online) reference works do you use to clarify subject-specific terminology (e.g. Baunetzwissen, Baulexikon, DIN, Wikipedia)? Please name some examples.

Please write your answer here:

As part of your last/current research, what data volume has been produced/generated per year?

🗳️ Choose one of the following answers

Please choose **only one** of the following:

< 1 TB

1-10 TB

11-100 TB

101 TB - 1PB

> 1 PB

Other

Do you already share research data with others?

🗳️ Choose one of the following answers

Please choose **only one** of the following:

yes

no

With whom do you share your research data and in which ways?

I share my research data ...

Only answer this question if the following conditions are met:

Answer was 'yes' at question '23 [D7]' (Do you already share research data with others?)

Please choose the appropriate response for each item:

	...within my department / faculty	...with trusted colleagues	...within a research project	...with my community (network)	...with the general public
by using a data medium	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
by e-mail	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
via a cloud service	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
via a research data repository	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

In your opinion, what are valid reasons to publish research data?

📌 Check all that apply

Please choose **all** that apply:

- increased visibility
- scientific transparency
- broader data basis by joint data collection
- safe, permanent accessibility
- structured project completion and preparation for own reuse
- saving costs

Other:

In your view, what are valid reasons for not publishing research data?

📌 Check all that apply

Please choose **all** that apply:

- requirement for secrecy or agreements with industry partners
- copyright of others is violated or unclear
- insufficient agreement with cooperation partners
- data protection reasons/insufficient anonymization
- disadvantages compared to others who do not publish their data
- effort that is not supported
- unsuitable data format/data structure
- uncertainty about the procedure
- uncertainty as to whether and how the data will be reused
- lack of infrastructure

Other:

Established support services for publishing research results and data

In the third and final part of our survey, we would like to know what informational, technical, and financial support services you are aware of for publishing research results and data at your institutions.

Which information services are you aware of at your university/institution to support OA publishing?

Please choose the appropriate response for each item:

	Online information material (website, blog, newsletter, etc.)	Printed information materials (flyers, brochures)	Open Access Representative	Information events (e.g. International Open Access Week, roadshows, lectures, workshops)	Open Access Policy/Guidelines
I know and use it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I know but do not use it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I don't know it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

By Open Access we mean "free, open, and permanent access to scientific information on the Internet" (both scientific text and data publications).

Which **technical supports** are you aware of at your university/institution for OA publications?

Please choose the appropriate response for each item:

	own institutional publication server for primary publications archiving	own Institutional publication server for publishing research data	own publishing house with the possibility to publish open access	own open access journal	technical connection to other institutions (e.g. open access platforms)
I know and use it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I know but do not use it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I don't know it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

By Open Access we mean "free, open, and permanent access to scientific information on the Internet" (both scientific text and data publications).

Which financial supports are you aware of at your university/institution for OA publications?

Please choose the appropriate response for each item:

	Means of the faculty or department	Publication funds of the university/institution	Third-party funding within the scope of (research) projects	National funding (e.g. DEAL project)
I know and use it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I know but do not use it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I don't know it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

By Open Access we mean "free, open, and permanent access to scientific information on the Internet" (both scientific text and data publications).

How did you get information about open access publishing?

Only answer this question if the following conditions are met:

Answer was 'yes' at question '12 [C1]' (Have you already published open access?)

🗨️ Check all that apply

Please choose **all** that apply:

- Own research about publication possibilities
- Information from colleagues/specialist community
- Advanced training at my institution/university
- Personal contact through university library

Other:

Wishes and requirements

Finally, we would like to learn more about your needs and wishes regarding services of the FID BAUdigital and wishful implementations for the web portal www.fid-bau.de.

Which services (informative, technical, financial) would help you to publish your research texts and data open access in the future?

🗨️ Check all that apply

Please choose **all** that apply:

- general information services (information print/online, roadshows, information events)
- special information and support services (focus on technical issues)
- special information and support services (focus on legal issues)
- active support for primary publication and self archiving (e.g., through the library)
- individual, personal consultation (e.g. by OA representative, legal advisor)
- online services for simplified verification of self archiving agreements
- specialized repository
- foundation of an overlay journal
- subject-specific preprint server
- technical solutions for summarizing relevant bibliographic sources (e.g. for simplified literature search, increasing the visibility of own publications)
- financial resources to support publication fees of open access journals
- awards/reward system (e.g. publication award, consideration in appointment processes)
- no requirement
- Other:

What services and implementations would you like to see for the BAUdigital specialized information service?

What would be the essential aspects and functions of this platform for you (e.g. people search, networking, data and information exchange, any wishes for visualization, usability)?

Please write your answer here:

Is there anything else you would like to share with us that has not yet been asked?

Please write your answer here:

Thank you for participating in this survey. By doing so, you will help us to design the intended contents and services of the FID BAUdigital.

You can find more information about the different offers and services of our project on our web service platform www.fid-bau.de.

You can also find our announcements and news about the FID BAUdigital on Twitter at <https://twitter.com/FIDBAUdigital> and Instagram <https://www.instagram.com/fidbaudigital/>

Please email us if you have any further questions or feedback about the project or this survey: info@fid-bau.de or k.wermbter@tu-braunschweig.de

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Submit your survey.

Thank you for completing this survey.