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Leibniz Institute
for the Social Sciences



Facilitating Research Data Access: Supporting Data Management and Curation with Community Driven Solutions

Wolfgang Zenk-Möltgen, Monika Linne, Jonas Recker
GESIS Data Archive for the Social Sciences

IASSIST & CARTO 2018

Once Upon a Data Point: Sustaining our Data Storytellers

Montréal, Québec, Canada, May 29-June 1, 2018

Member of the
Leibniz
Leibniz Association

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Data Sharing in the Social Sciences

- Long tradition of archiving and re-using data in the quantitative social sciences
 - ▶ Roper Center (U.S.) founded in 1947
 - ▶ GESIS Data Archive and other European social science archives founded in the 1960s
- Traditionally focus was on large-scale surveys/polls
- As a result of the digital transformation and growing importance of Open Science, the data sharing and archiving landscape in the social sciences is changing

A changing landscape

- Open Science: More pressure on researchers to manage and share their data (“reproducible research”)
- Data continues to gain importance as academic “currency”
 - ▶ for individual researchers as data publication
 - ▶ for research organizations, who have come to regard data as an asset that has to be managed
- Public administration collecting statistical data is on it’s way to provide “open government data” for re-use
 - ▶ Strong and growing network of Research Data Centers in Germany (organized in the [German Data Forum](#))

A changing landscape: Consequences (1)

- More data is shared, especially in the long tail
- Higher expectations regarding citability, accessibility, persistence of data
- Diverse stakeholder groups have an interest in the data as research output
 - ▶ Researchers
 - ▶ Research organizations
 - ▶ Funders
 - ▶ Scholarly journals and (commercial) publishers
 - ▶ Libraries and archives

A changing landscape: Consequences (2)

- New demands on data archives from different groups of stakeholders
 - ▶ Guidance on RDM and data sharing
 - ▶ Easy data sharing solutions that support persistent identification, access, and citation
 - ▶ Data sharing solutions for new data types and sensitive data
 - ▶ Services for linking of data and publications
 - ▶ Services and infrastructure for organizations who want to manage and showcase their own research data

New services for new challenges: Examples from the GESIS Data Archive

SowiDataNet

X-econ
Repository of Experimental Economics

Replikationsserver

gesis  datorium

da|ra Registrierungsagentur für
Sozial- und Wirtschaftsdaten

SowiDataNet project

- Funded by the Leibniz Association from 2014-2017
- Project lead: GESIS

- Partners: **ZBW** Leibniz-Informationszentrum
Wirtschaft
Leibniz Information Centre
for Economics

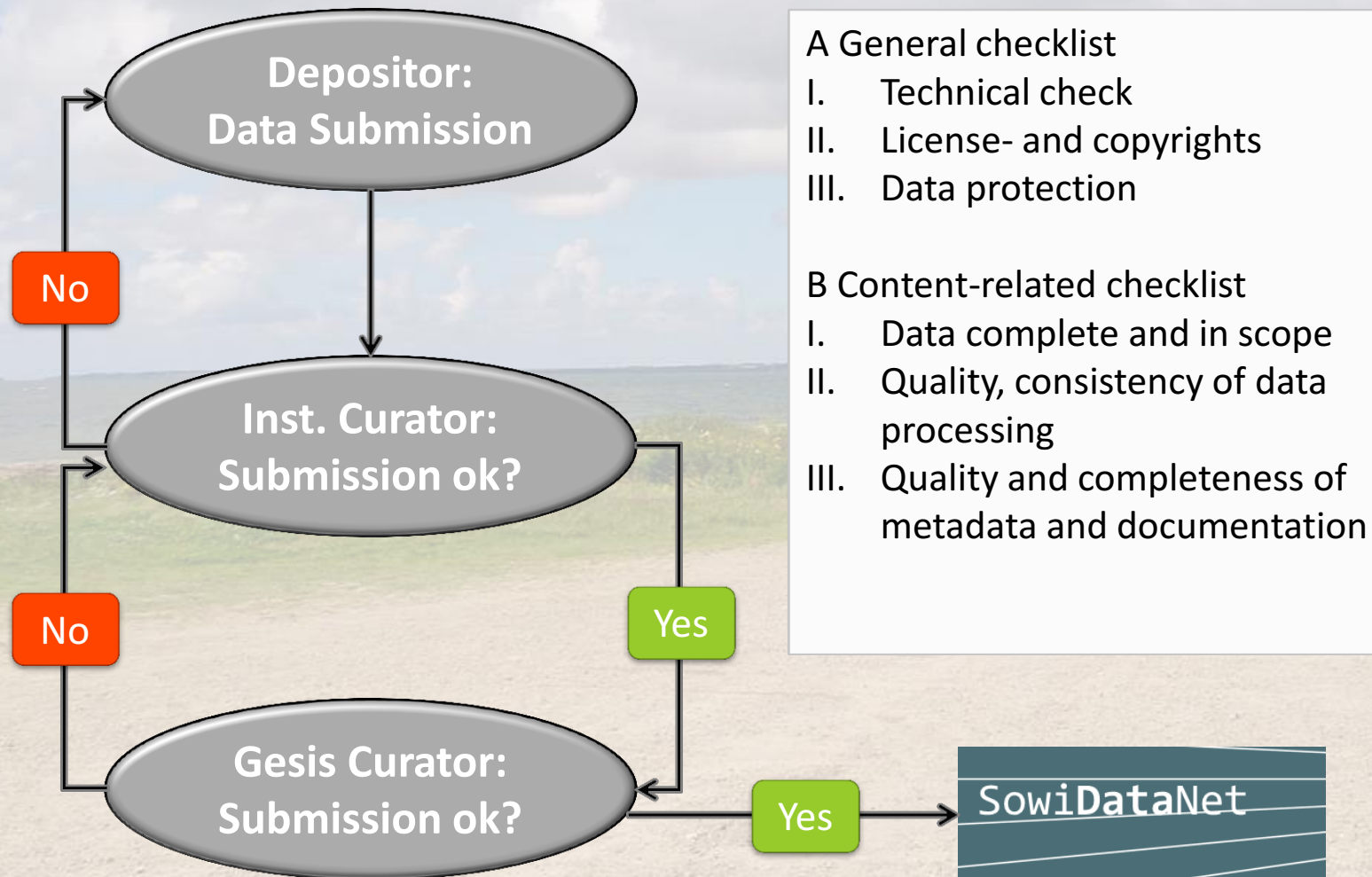


- Since January 2018 SowiDataNet is offered by GESIS in a public beta phase
- Will become part of the GESIS service portfolio in October 2018

SowiDataNet features

- Quality of data and documentation
 - ▶ Checklist for curators and two-step curation workflow
- Data discovery and citation
 - ▶ Metadata schema, controlled vocabularies
 - ▶ DOI-registration via da|ra
- Persistence
 - ▶ Guaranteed bitstream preservation for 25 years
- Branding
 - ▶ Integration into customer webpage

SowiDataNet – curation workflow



Benefits

- Possibility to start at an early stage of the data life cycle, e.g. for capture of the metadata
 - ▶ Traditionally the archiving happened at the end of the research project
 - ▶ Institutions may now integrate the workflow into their project processes
- Contractual obligation leads to increased stability and commitment (compared to a single researcher data deposit)
 - ▶ Both partners can foresee options for project archiving activities, and especially calculate the costs

SowiDataNet technology

- Based on DSpace 5.6
- Backend is a PostgreSQL database
- Provides OAI-PMH protocol to expose metadata
- Uses an interface for da|ra, the GESIS service for registering DOIs

<http://sowidatanet.de/xmlui/>

SowiDataNet

SowiDataNet



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SowiDataNet Team

GESIS Data Archive for the
Social Sciences

Tel.: +49(221)-47694-417

 E-Mail



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██████████@gesis.org|

Password: *

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Register an account to subscribe to collections for email updates, and submit new items to DSpace.



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Description

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Methodology

Additional
Notes

Files

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Please describe your Research Project as a whole. Single Files can be documented in the Tab "Files".

* = Required fields

Title: *

My IASSIST data set on social scientists

Other Titel:

What are the topics of interest?

Other Title Type:

Subtitle

Primary researcher: *

Name:

Zenk-Möltgen, Wolfgang

Institution:

GESIS - Leibniz-Institut für Sozialwissenschaft

Publisher: *

GESIS - Leibniz-Institute for the Social Sciences

Publication Year: *

2018

Availability:

Free Access (without registration)

Other Contributors:

Name:

Name, first name

Institution:

Contributor Type:

Internal Comment for Basic Information:

... Please fill in ...

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Next >

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Further Information

Terms of Use

General
Description

Content

Methodology

Additional
Notes

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* = Required fields

Subject Area:

Training, Teaching and Studying, Professional Organizations of Sociology



Topic Classification:

Social sciences keywords (Thesaurus TheSoz)



TheSoz Keywords:

environment



Plant Environment

Working environment

Learning environment

Human-environment relationship

Environment

Environmental officer

Environmental consulting

Environmental reporting

Environmental awareness

Environmental Protection Agency

Environmental education

Environmental science

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Further Information

Terms of Use

General
Description

Content

Methodology

Additional
Notes

Files

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* = Required fields

Subject Area:

Training, Teaching and Studying, Professional Organizations of Sociology



Topic Classification:

Social sciences keywords (Thesaurus TheSoz)



TheSoz Keywords:

Learning environment



Abstract:

The project tries to evaluate important topics at the IASSIST conference for social scientists...

Internal Comment on Content:

The study is not yet completed...

< Previous

Save & Exit

Next >

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Search

My Submissions

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Terms of Use

General
Description

Content

Methodology

Additional
Notes

Files

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The following fields are used for the methodical description of your project. If individual records differ, the "Files" tab allows you to differentiate the data for the individual records.

Geographical location - State, Country (according ISO-3166):

Germany / DE



Geographical location - Region:



Temporal research design:

cross-section



Population:

German adults

Selection Method:

Probability Sample - Simple random Sample

Surveying procedures:

Interview



Survey Period Start:

2018-05-25

Survey period End:

2018-05-31



Internal Comment on Methodology:

< Previous

Save & Exit

Next >

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Search

My Submissions

New Submission

Further Information

Terms of Use

General
Description ▶

Content ▶

Methodology ▶

Additional
Notes ▶

Files ▶

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* = Required fields

Type of License:

CC BY-NC-SA 4.0: Attribution - NonCommercial - ShareAlike

Publications:

Citation

Linne, Monika, and Wolfgang Zenk-
Möltgen. 2017. "Strengthening
institutional data management and

Publication ID

<http://dx.doi.org/10.18352/lq.10195>

+

Project/Data Notes:

Interpret data with care...

Internal Comment on the Further References:

< Previous

Save & Exit

Next >

Search

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Further Information

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General
Description ▶

Content ▶

Methodology ▶

Additional
Notes ▶

Files ▶

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conditions ▶

Please describe your individual files.

File:

Durchsuchen... sdndata.sav

File Name:

sdndata.sav

Type of File: *

Research Data

Advanced methodological Data

Version Number:

1.0

Version Date:

2018-05-25

Language:

English / en

+

Number of Variables:

13

Number of Units:

254

Unit Type:

individual

References:

If any other references have been used (e.g. acquisition of questionnaire concepts, other research data etc.) please enter these references here.

+

+

Alternative ID

+

Related ID

Relation Type

□

□

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General
Description ▶

Content ▶

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Additional
Notes ▶

Files ▶

Verify ▶

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conditions ▶

Please check your details before completing your entry.

Check the General Description

Title:

My IASSIST data set on social scientists

Other Titel:

What are the topics of interest?; Untertitel

Primary researcher:

Zenk-Möltgen, Wolfgang (GESIS - Leibniz-Institut für Sozialwissenschaften)

Publisher:

GESIS - Leibniz-Institute for the Social Sciences

Publication Year:

2018

Availability:

Free Access (without registration)

General Description revise

Check the Content

Subject Area:

Training, Teaching and Studying, Professional Organizations of Sociology

Topic Classification:

Social sciences keywords (Thesaurus TheSoz)

TheSoz Keywords:

Learning environment

Abstract:

The project tries to evaluate important topics at the IASSIST conference for social scientists...

With SowiDataNet GESIS offers an online platform for the archiving, documentation and publishing of research data from projects of the social sciences. Researchers, projects or institutions can upload and describe their research data autonomously. Published data receive a persistent identification (DOI). After publishing the data documentation can be searched freely on the Internet. The usage of the research data is governed by the access conditions chosen by the data provider.

1. By documenting a study project the data provider transfers GESIS the right of usage of research data sets and documents, especially
 - The right to systematically archive these data sets and documents and to convert these for the purpose of longterm archiving and publication. GESIS is free to use all relevant technical means, formats and methods.
 - Furthermore the right to make data sets and documents freely and longterm accessible within the scope of the Online-Services of GESIS.
2. The documentation of the research data and documents respectively projects (metadata) will be made accessible and searchable over the internet without a prior registration. It will be published analogous to the [terms of use of the data catalogue of GESIS](#) under the [CC0-Lizenz](#).
3. Data and additional material are free of rights of third parties and all relevant regulations of data protection have to be complied with.
4. GESIS reserves the right to refuse the holding of data and further material entirely or in part or to remove already accepted data from its sites, if there are any doubts about the legal admissibility of archiving.
5. In general, the possibility of deletion of once uploaded data sets is not provided. The deletion is only possible for reasonable exceptions (e.g., faulty files, legal problems) after consultation with GESIS. Concerned projects will still be publicly referred to and the assigned DOI heads to the equivalent entry in SowiDataNet. This entry will be added with a note of withdrawal of the data.
6. The physical retention of all uploaded objects and metadata will be guaranteed for the period of operation of SowiDataNet, at least for ten years.

☒ accept the [terms of use](#).

< Previous

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Complete submission

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Your submission will now go through the review process for this collection. You will receive e-mail notification as soon as your submission has joined the collection, or if there is a problem with your submission. You may also check on the status of your submission by visiting your submissions page.

[Go to the Submissions page](#)

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Search

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Reviews

These are your completed submissions which are currently being reviewed by collection curators.

Title	Submitted	Curator
Test 18.05.2018	18.05.2018	Mr Curator2
My IASSIST data set on social scientists	25.05.2018	-



SowiDataNet Curation Workflow

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GESIS Workflow tasks

These tasks are items that are awaiting approval before they are added to the repository. There are two task queues, one for tasks which you have chosen to accept and another for tasks which have not been taken by anyone yet.

Tasks you own

	Title	Submitter	Submitted	Last Modified
<input type="checkbox"/>	test nochmal ALLESNEU	✉ Mr Datengeber1	12.01.2018	27.04.2018

Return selected tasks to the pool

Tasks in the pool

	Title	Submitter	Submitted	Last Modified
<input type="checkbox"/>	My IASSIST data set on social scientists	✉ Mr Datengeber2	25.05.2018	25.05.2018

Take selected tasks

Licenses

CC BY-NC-SA 4.0: Attribution - NonCommercial - ShareAlike

Notes

Interpret data with care...

Publications

Linne, Monika, and Wolfgang Zenk-Möltgen. 2017. "Strengthening institutional data management and promoting data sharing in the social and economic sciences." *Liber Quarterly* 27 (1): 58-72. <http://dx.doi.org/10.18352/lq.10195>. ; <http://dx.doi.org/10.18352/lq.10195>

Files in this item

Files	Description	Download-Option
sdndata.sav Size : 143.3Kb	<p>File Name: sdndata.sav</p> <p>Type of File: Research Data</p> <p>Version Number: 1.0</p> <p>Version Date: 2018-05-25</p> <p>Language: English / en</p> <p>Number of 13</p> <p>Variables:</p> <p>Number of Units: 254</p> <p>Unit Type: individual</p> <p>Software and SPSS 18</p> <p>Version:</p>	<p>Please enter the purpose ▼</p> <p>Download</p>

Actions you may perform on this task:

Assign this task to yourself.

Take task

Leave this task in the pool for another user to take.

Leave task

Return

Files in this item

Files	Description	Download-Option
sdndata.sav Size : 143.3Kb	File Name: sdndata.sav Type of File: Research Data Version Number: 1.0 Version Date: 2018-05-25 Language: English / en Number of 13 Variables: Number of Units: 254 Unit Type: individual Software and SPSS 18 Version:	Please enter the purpose <input type="text"/> <input type="button" value="Download"/>

Actions you may perform on this task:

This item is a new publication with the default version of

1.0.0

View Curator Checklist

If you have reviewed the item and it is suitable for inclusion in the collection, select "Approve".

If you have reviewed the item and found it is **not** suitable for inclusion in the collection, select "Reject". You will then be asked to enter a message indicating why the item is unsuitable, and whether the submitter should change something and resubmit.

Select this option to change the item's metadata.

Return the task to the pool so that another user may perform the task.

C Zusammenfassung der Qualitätsprüfung

Summary of quality check

Data readable

Copyright / Licensing

Data protection

Ingest check

Data cleaning check

Metadata check

Documents included

Quality of data and
documentation
sufficient for re-use

Quality sufficient for
SowiDataNet

Zusammenfassung:

Antwortmöglichkeiten

Checked

Lesbarkeit der Daten

☐ Wurde geprüft.

Urheber-/Lizenz- u.
Nutzungsrechte

☐ Wurde geprüft.

Datenschutzfragen

☐ Wurde geprüft.

Dateneingang

☐ Wurde geprüft.

Datenaufbereitung

☐ Wurde geprüft.

Metadaten

☐ Wurde geprüft.

Begleitdokumentation

☐ Wurde geprüft.

Abschließendes Fazit:

Conclusion

Yes / No

Sind die Datenqualität und die
Qualität der Dokumentation
ausreichend, um eine
Nachnutzung zu ermöglichen?

☐ Ja ☐ Nein

Sind die Datenqualität und die
Qualität der Dokumentation
ausreichend, um die Studie ins
SowiDataNet Repositorium
aufzunehmen?

☐ Ja ☐ Nein

Conclusion

Abschließende Anmerkungen:

Save & Exit

Back

Outlook

- Integration of datorium and SDN using Vaadin framework
 - ▶ Both services will run under a common user interface
 - ▶ Increased user-friendliness
 - ▶ More flexibility in the development of new functionality
- Planned to be available in autumn 2018
- Afterwards integration of all deposit services („single door solution“) within the Archive

Prototype of the Integrated Portal

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Please log in to submit a resource

Username:

submitter1@gesis.org

Password:

••••••••

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Q

Enter your resource

Enter your resource and add files. If you prefer, you can save your submission as a draft and continue working on it later. Drafts are stored under "My submission".

Basic Information

Title *

The integrated sowidatanet dataset for IASSIST 2018

Other Title

Other Title Type

+

Primary Researcher

Name

Zenk-Möltgen, Wolfgang

Institution

GESIS - Leibniz-Institut für Sozialwiss

+

Publisher *

German Institute for Economic Research

German National Library of Economics

GESIS - Leibniz-Institute for the Social Sciences

WZB Berlin Social Science Center

Other

+

Availability *

Title of the work in the original language.
Use standard capitalization:
"The title of the work" rather
than "The Title of the Work"

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Free access (without registration) ▼

Other Contributors

Name Institution Contributor Type

Name, first name +

Internal Comment for Basic Information

... Please fill in ...

☐ Ich habe mich im Rahmen einer Publikation in der Zeitschrift für Soziologie oder der Sozialen Welt dazu verpflichtet, die dort verwendeten Daten und Aufbereitungsdateien (bspw. Syntax) in datorium zu veröffentlichen.

+ Content

+ Methodology

+ Additional Notes

Files

Drop files here or click to upload

Save Review and Accept License

Thank you for your attention.

<http://sowidatanet.de/xmlui/>