



KonsortSWD
Consortium for the
Social, Behavioural, Educational
and Economic Sciences



Daten. Politik. Zukunft. 9 | KSWD

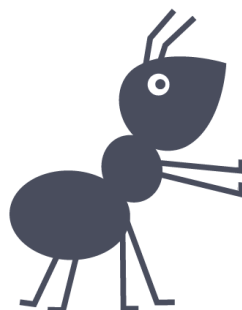
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9th Conference on Social and Economic
Data - KSWD 2023
Parallel Forums III (L)
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gesis
Leibniz Institute
for the Social Sciences



GESIS Use case Variable publication and citation & Fine granular access to research data

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Peter Mutschke

GESIS – Leibniz Institute for the Social Sciences

Claus-Peter Klas

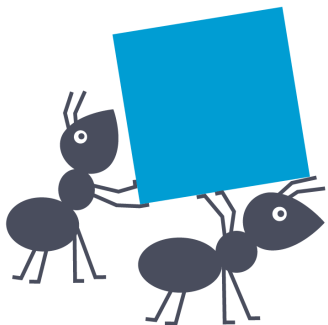
Dr. Claus-Peter Klas, GESIS – Leibniz Institute for the Social Sciences, Team Leader "Data & Service Engineering" and Measure Lead in the NFDI consortium KonsortSWD in the department "Knowledge Technologies for the Social Sciences". He received his PhD in computer science at the University of Duisburg-Essen and was a postdoctoral researcher in the Department of Multimedia and Internet Applications, Faculty of Mathematics and Computer Science, University of Hagen, Germany. His research focuses on information retrieval, interactive information retrieval, information systems, databases, digital libraries, preservation and grid and cloud architectures. He developed the software Daffodil founded on a nation research project and worked in national and European research projects such as The European Film Gateway, SHAMAN (Sustaining Heritage Access through Multivalent Archiving) and Smart Vortex (Scalable Semantic Product Data Stream Management for Collaboration and Decision Making in Engineering). He is currently responsible for several infrastructure projects within GESIS, such as dalra, SowiDataNet or Missy, all concerned with providing information and data for social scientists. In addition, he lead the measure PID Services in the national research infrastructure project NFDI. In his team, they are developing an open source DDI suite to support getting DDI into operation.

Janete Saldanha Bach

Dr. Janete Saldanha Bach, GESIS – Leibniz Institute for the Social Sciences. Postdoc in the NFDI consortium KonsortSWD in the department "Knowledge Technologies for the Social Sciences", team FAIR Data and Human Information Interaction, working in the consortia KonsortSWD Project of the National Research Data Infrastructure (NFDI). She holds a Ph.D. and a Master's degree in Science and Technology Studies (STS) and a bachelor's degree in Information Science. Her research expertise is in Open Science, especially in research data management and data reuse in the Social Sciences. She is currently involved in consortium KonsortSWD, Task Area 5 Measure 1 - developing the conceptual framework for the PID registration service at a variable level and Task Area 5 Measure 2 Enhancing data findability.

Peter Mutschke

Peter Mutschke is deputy head of the department "Knowledge Technologies for the Social Sciences (KTS)" and leader of the team "FAIR Data and Human Information Interaction" of KTS. His research interests include Information Retrieval, Network Analysis and Open Science. He worked in a number of national and international research projects, such as the DFG projects DAFFODIL and IRM and the EU projects WeGov, SENSE4US, OpenMinTeD and MOVING. Peter served as a member of the management committee of the Leibniz research alliance "Science 2.0/Open Science" from 2013-2021. He founded and coordinates the GO FAIR Implementation Network "Cross-Domain Interoperability of Heterogeneous Research Data (Go Inter)", and he is member of the steering committee of the FAIR Digital Objects Forum (fairdo.org) where he also co-chairs a working group on semantics. He is currently involved in consortia KonsortSWD, NFDI4DataScience and BERD@NFDI of the National Research Data Infrastructure (NFDI). ORCID: <https://orcid.org/0000-0003-3517-8071>.



Agenda

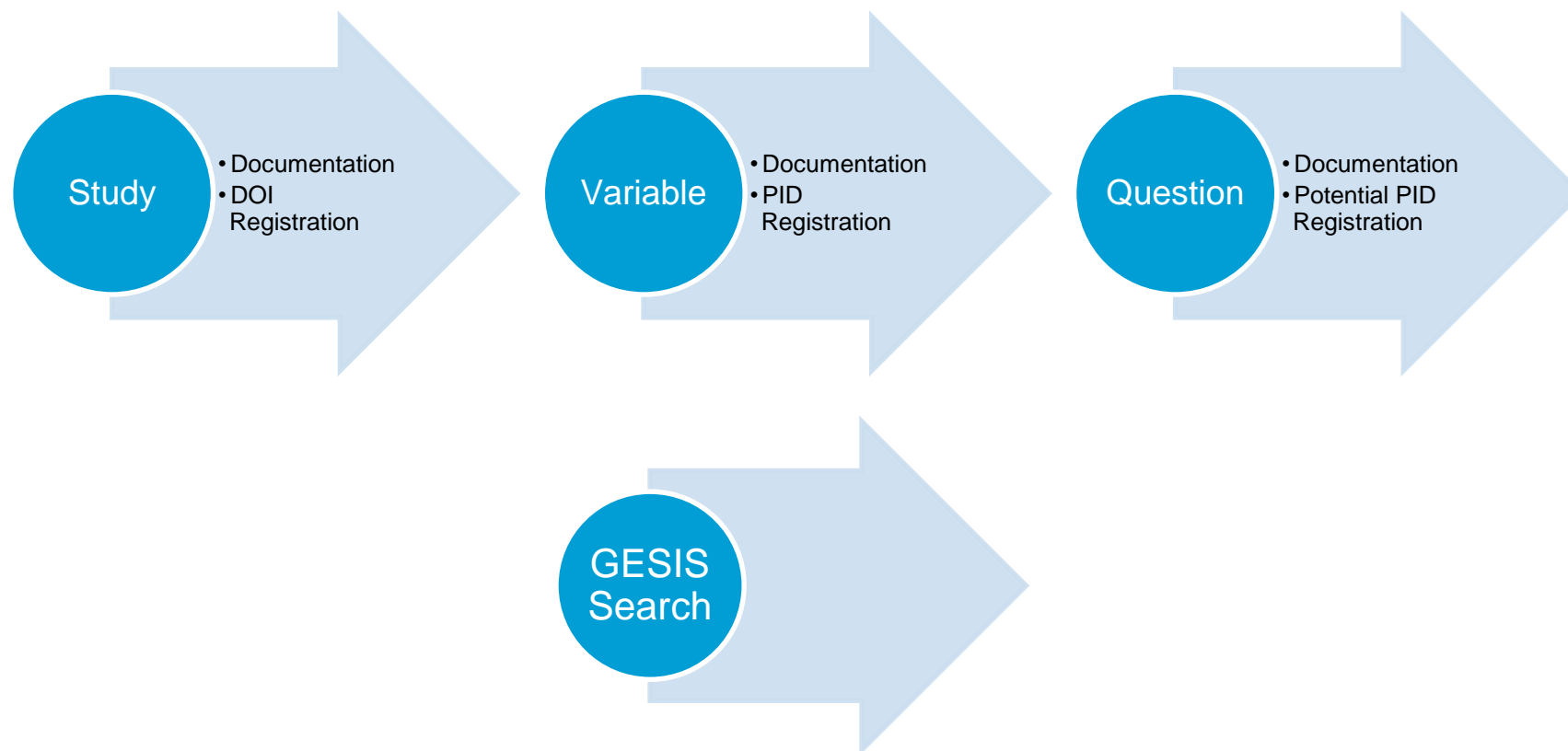
- GESIS Use Case: The PID Registration service for variables
- GESIS Workflow: Documentation to Dissemination
- Future use cases for PIDs on variable level

Institution name	DZHW German Center for Higher Education Research and Science Research (DZHW)	GESIS Leibniz Institute for the Social Sciences	GESIS harmonization tools			DIW German Institute for Economic Research	Qualiservice University of Bremen
			GESIS <u>QuestionLink</u>	<u>ONBound</u> - Old and new boundaries: National Identities and Religion	<u>Harmonizing</u> and synthesizing partnership histories		
Project / Study	HEADS - Higher Education Analytical Data System	Gesis Data Archive	QuestionLink Harmonisation tool	ONBound Harmonisation Wizard	HaSpaD - Harmonising and synthesizing partnership histories	German Socio-Economic Panel Study (SOEP-Core)	Qualiservice as part of QualidataNet from KonsortSWD
Attributes	Survey variables	Survey variables	Survey variables	Survey variables	Survey variables	Survey variables	Qualitative data files
PIDs uses cases	Variables in datasets; differentiation variables: complex system including one content (dependent variable) plus several independent variables to differentiate this dependent variable by subgroups;	Variables in large datasets from national and international studies	Variables from GESIS and third-parties collections (NEPS and SOEP) for harmonization purposes. Political interest pre-harmonized variables. Some surveys only have one variable name across several years, whereas other surveys have different variable names per wave.	Variables from third-parties collections for harmonization purposes; Religion and Nation in Constitutions Worldwide, Religion and State Project, Church Attendance and Religious; United Nations: Demographic Statistics Database	Variables from third-parties collections for harmonization purpose; The survey programs include Panel Analysis of Intimate Relationships and Family Dynamics s	Assign a PID for each variable from the SOEP-Core v37. SOEP-Core doi:10.5684/soep-core.v37o	Assign a PID for qualitative data, organized in files or dataset, regarding Transcripts, translation, audiovisual and context material for doctor-patient-interaction videos observed
Variables #	Depend on the user selection	507.642	68	750	Depend on the user selection	101.574	N/A




- PIDs for more than 500,000 variables from 6,500 national and international studies covering various topics in the Social Sciences, Economics, and Behaviour Sciences.

GESIS Data Archive documents surveys incl. variables and questions level in DDI



[Angebot](#) [Forschung](#) [Institut](#)

[< Zurück](#)



t57 - Familienstand


Studie: ZA6842 - GLES Tracking September 2020, Wiederholungsbefragte T46W
Quelldatei: ZA6842_v2-0-0.sav

[Aktionen](#)
[Merken](#)

Variablen-Code-Liste:

Wert	Wertelabel
-99	keine Angabe
-93	Interview abgebrochen
1	verheiratet und mit Ehepartner zusammenlebend
2	verheiratet und vom Ehepartner getrennt lebend
3	eingetragene, gleichgeschlechtliche Lebenspartnerschaft, zusammenlebend
4	eingetragene, gleichgeschlechtliche Lebenspartnerschaft, getrennt lebend
5	ledig
6	geschieden
7	verwitwet

[weniger](#)

Dazugehörige Forschungsdaten (1) 

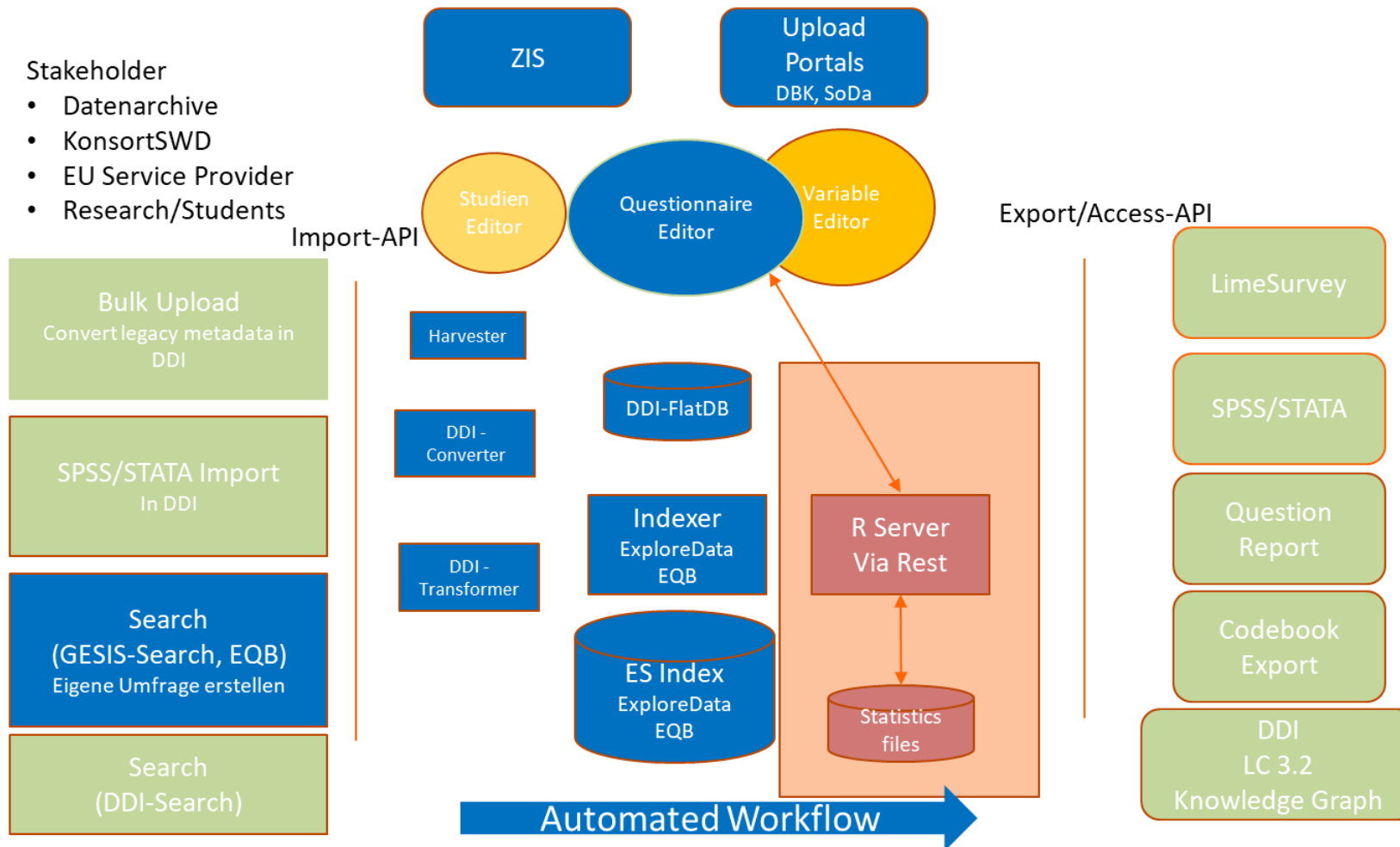
Zitieren

[APA](#) [Bibtex](#) [Endnote](#) [Citavi](#)

```
@misc{exploredata-ZA6842_Vart57,  
  author = "GLES",  
  year = "2022",  
  urn = "https://search.gesis.org/variables/exploredata-ZA6842_Vart57",  
}
```

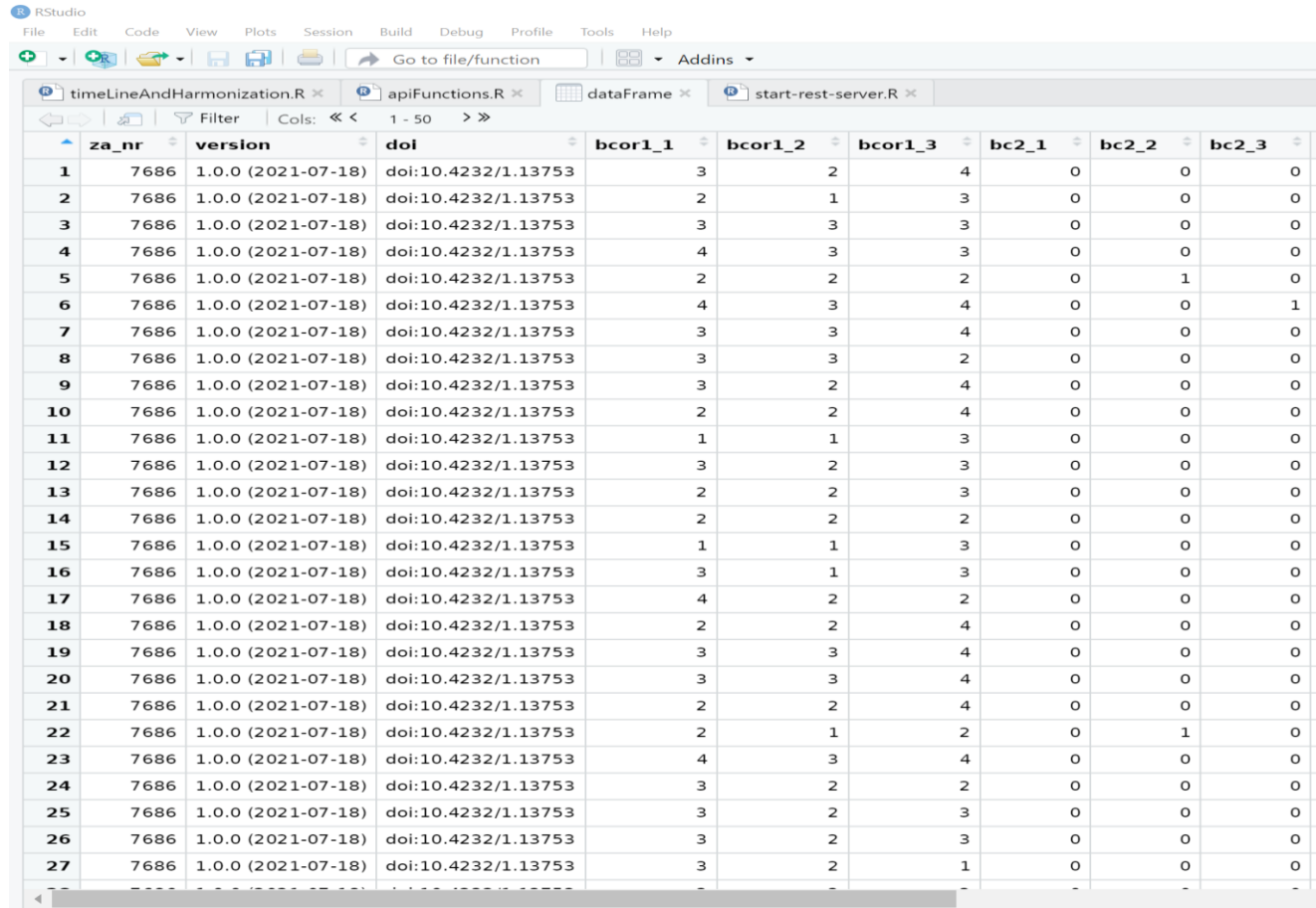
[Download](#)

Future uses of variable PIDs



```
dataFrame <-
```

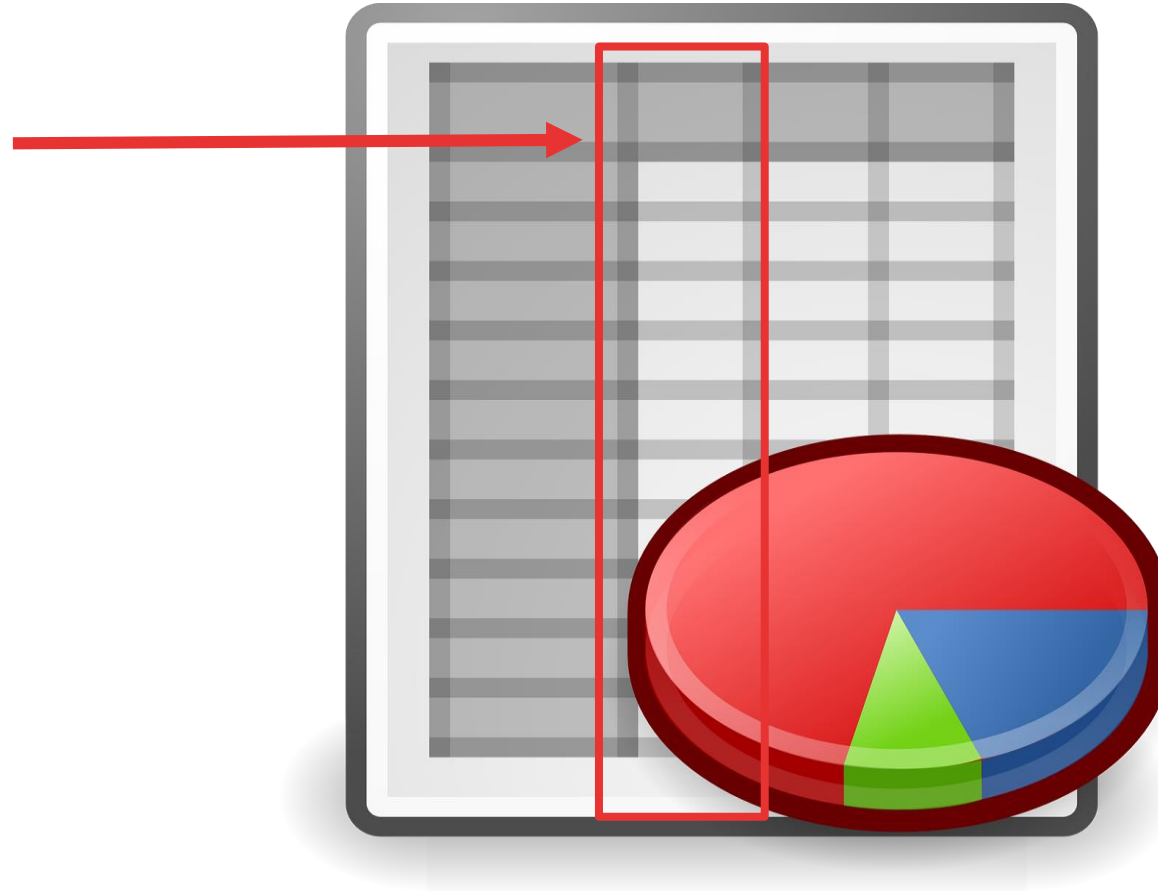
```
read.csv("http://10.6.xx.yy:8100/getDataByStudyId?studyId=https%3A%2F%2F  
search.gesis.org%2Fresearch_data%2F ZA7686", sep = "\t")
```

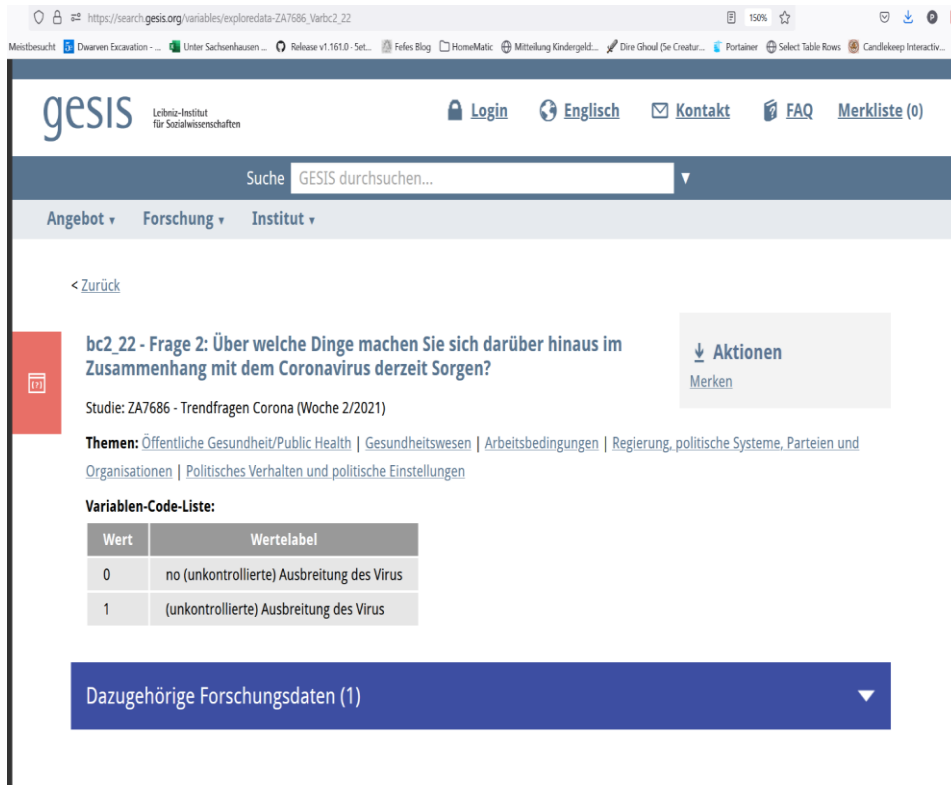


The screenshot shows the RStudio interface with a DataFrame loaded. The DataFrame has 27 rows and 10 columns. The columns are: za_nr, version, doi, bcor1_1, bcor1_2, bcor1_3, bc2_1, bc2_2, bc2_3, and t. The data is as follows:

	za_nr	version	doi	bcor1_1	bcor1_2	bcor1_3	bc2_1	bc2_2	bc2_3	t
1	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	2	4	0	0	0	
2	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	2	1	3	0	0	0	
3	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	3	3	0	0	0	
4	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	4	3	3	0	0	0	
5	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	2	2	2	0	1	0	
6	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	4	3	4	0	0	1	
7	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	3	4	0	0	0	
8	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	3	2	0	0	0	
9	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	2	4	0	0	0	
10	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	2	2	4	0	0	0	
11	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	1	1	3	0	0	0	
12	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	2	3	0	0	0	
13	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	2	2	3	0	0	0	
14	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	2	2	2	0	0	0	
15	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	1	1	3	0	0	0	
16	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	1	3	0	0	0	
17	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	4	2	2	0	0	0	
18	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	2	2	4	0	0	0	
19	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	3	4	0	0	0	
20	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	3	4	0	0	0	
21	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	2	2	4	0	0	0	
22	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	2	1	2	0	1	0	
23	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	4	3	4	0	0	0	
24	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	2	2	0	0	0	
25	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	2	3	0	0	0	
26	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	2	3	0	0	0	
27	7686	1.0.0 (2021-07-18)	doi:10.4232/1.13753	3	2	1	0	0	0	

Variables in
tabular data
format





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Suche GESIS durchsuchen...

Angebot Forschung Institut

< Zurück

bc2_22 - Frage 2: Über welche Dinge machen Sie sich darüber hinaus im Zusammenhang mit dem Coronavirus derzeit Sorgen?

Aktionen
Merken

Studie: ZA7686 - Trendfragen Corona (Woche 2/2021)

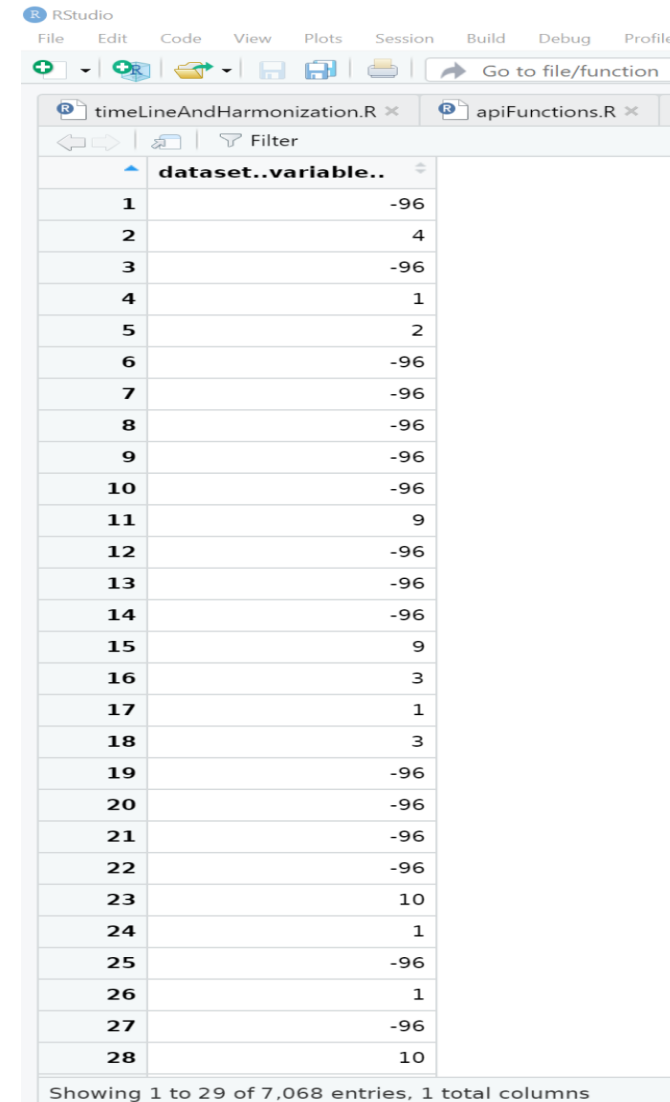
Themen: Öffentliche Gesundheit/Public Health | Gesundheitswesen | Arbeitsbedingungen | Regierung, politische Systeme, Parteien und Organisationen | Politisches Verhalten und politische Einstellungen

Variablen-Code-Liste:

Wert	Wertelabel
0	no (unkontrollierte) Ausbreitung des Virus
1	(unkontrollierte) Ausbreitung des Virus

Dazugehörige Forschungsdaten (1)

```
vec <- read.csv("http://10.6.xx.yy:8100/getDataByListOfVariablePIDs?
variables=https://search.gesis.org/variables/exploredata-
ZA7703_Varpre010j")
```



RStudio

File Edit Code View Plots Session Build Debug Profile

Go to file/function

Filter

	dataset..variable..
1	-96
2	4
3	-96
4	1
5	2
6	-96
7	-96
8	-96
9	-96
10	-96
11	9
12	-96
13	-96
14	-96
15	9
16	3
17	1
18	3
19	-96
20	-96
21	-96
22	-96
23	10
24	1
25	-96
26	1
27	-96
28	10

Showing 1 to 29 of 7,068 entries, 1 total columns

What do you need todo?

- Document your variables
 - Create a new metadata field for PIDs
 - Register the variable with the mandatory metadata
 - Store the PID in the metadata
- Make your variables searchable incl. a landing page
- Create a citation format
- Future: Open up your data

Claus-Peter Klas, Janete Saldanha Bach and Peter Mutschke. 2023. GESIS Use case Variable publication and citation & Fine granular access to research data . In 9th Conference on Social and Economic Data - KSWD 2023, 28 - 29 March. 2023. 15 slides. DOI: [10.5281/zenodo.7750031](https://doi.org/10.5281/zenodo.7750031).





PID Service report

<https://doi.org/10.5281/zenodo.6397367>

PID use cases extended report

<https://doi.org/10.5281/zenodo.7588944>

PID metadata schema extended report

<https://doi.org/10.5281/zenodo.7588902>

The service is part of KonsortSWD project
deliverable, NFDI funding number 442494171

