

# Starting Cohort 5: First-Year Students (SC5)

## SUF Version 6.0.0

### Anonymization Procedures

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# 1 Preamble

This documentation gives an exhaustive explanation of all disclosure risk minimization techniques applied before dissemination to the Scientific Use File (SUF) of Starting Cohort (SC) SC5, version 6-0-0 (doi:10.5157/NEPS:SC5:6.0.0). For a quick reference to all variables and datafiles which are affected in detail and on which level you will find the full information, please skip forward to appendix section A.1. If you have inquiries or need further information not covered in this document please feel free to contact the research data center at [fdz@lifbi.de](mailto:fdz@lifbi.de). Please note the following general remarks:

- in all tables, the anonymization suffix (\_O, \_R, \_D) was removed from the variable name to enhance readability and remove duplicates. To find a specific variable in the data file, add the corresponding suffix or use a wildcard.
- to ensure a data-consistent documentation, all tables in this document have been produced on basis of the SUF data. Variable labels in the data have been cut off at 80 characters, which inherits to this documentation.
- as additional documentation, a *Semantic Data Structure File* is available. This is the complete SUF where all cases have been removed. Feel free to use this as a first overview to the data in cases you do not have access to the real data (e.g. you are interested in data files which are available OnSite only). You are well advised to use this preparing your syntax *before* initiating your travel to our OnSite facility. You find it freely available on the documentation page to this SUF:

[www.neps-data.de](http://www.neps-data.de) > Data Center > Data and Documentation > SC5 > Documentation

## 1.1 Specifications

To ensure the best possible confidentiality protection of individuals and individual micro data, the National Educational Panel Study complies with strict international standards. To achieve this, a *portfolio approach*, based on the ideas of Lane, Heus, and Mulcahy, 2008, has been established. This approach interlocks data security mechanism on five different levels, while the actual data modification (i.e. anonymization) is one of them. For further information, see the oncoming publication Koberg, 2016. Operationalizing this modification procedure, it can be abstracted to the following two criteria:

- the disseminated data was transferred to so called *de facto anonymous data*. Identifiable information is coarsened or cut off and kept securely to minimize the risk of statistical disclosure.
- the use of data is strictly confidential and for statistical purposes only. The closed contract only grants access to members of the scientific community. This contract has a vast amount

of legal stipulations, one of them being a large fine which applies for the realization of re-identification on purpose. Therefore, the disseminated data is highly protected by law and allows a more flexible range of available data.

To pick up the latter, the NEPS has made a huge effort regarding legal regulations to offer as much analysis power of data as possible. This *paradigm of information esteem* reveals the fact that conducted measures of statistical disclosure control are few. Also, if there really was a need for modification, only non-perturbative methods were used.

### 1.2 Onion-shaped model

The NEPS grants the user three different modes of data access: (1) *OnSite*, which stands for the opportunity to use the secured infrastructure made available at the LIfBi in Bamberg, (2) *RemoteNEPS*, which is a progressive remote access technology providing a virtual desktop, and finally (3) *Download*, indicating the possibility to fetch data via a secure web portal.

These given access modes have been originated to allow anonymization routines for a subtle differentiation of information. The three resulting levels of anonymization define as follows:

- data provided OnSite is generally not further anonymized. However, even those data was rendered *de facto anonymous*, for no disclosure risk to persist. All information contained remains completely sane. Although users have to deal with limited possibilities of data access (i.e. supervised import and export of their results), they are free to work with all data available in a secure environment.
- access via RemoteNEPS is considered equivalent to OnSite, hence most of the data stays complete.
- as Download is assumed to be the most hazardous access mode<sup>1</sup>, some more anonymization techniques are done to the dataset.

Obviously this approach results in three different versions of all involved datasets. To enable a consistent structure, these data files always contain the entire set of variables; it is their content which differs through the three levels.

As normally there is no need to resign aggregated variables in the higher levels (i.e. OnSite or RemoteNEPS), those are already defined as a surplus to the original variable in the OnSite-version. Stepping down to RemoteNEPS, the content of related variables too sensitive for this level is overwritten with an exclusive missing code – an operation which we define as *purging*. Note that system missing values are not affected, allowing the user to differ between value existence and nonexistence. This still is a valuable additional information. The same logic applies to the transition from RemoteNEPS to Download.

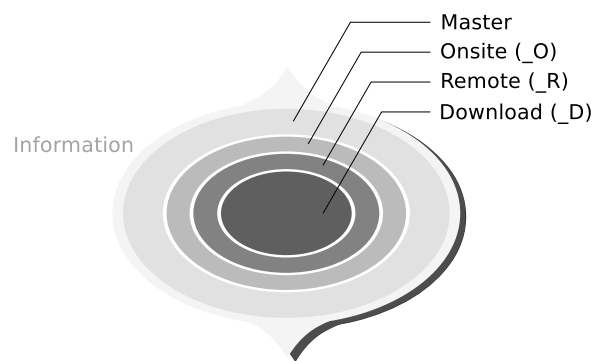
<sup>1</sup> 'hazardous' in terms of: the downloaded content is no longer under physical control of the LIfBi

## 2 Conducted measures

While there is no explicit documentation to this fact, it should remain clear that this procedure accumulates, i.e. purged content under RemoteNEPS is therefore neither included in RemoteNEPS nor in Download.

This *onion-shaped model* provides both ease of (1) use of different sensitivity models (e.g. preparing an analysis using the Download dataset and conducting it afterwards using the OnSite-data) and (2) documentation, for the subject of documentation is the most sensitive level (OnSite), with RemoteNEPS and Download levels being a subset of these data.

The fourth layer *master* depicted below contains every material which is needed during data processing by the NEPS, but is not meant for the scientific community to be usable.



**Figure 1:** Onion-shaped model defining the different anonymization levels

Technically, this model realizes in a single letter suffixed to dataset and variable names. All datasets available OnSite only are marked with an additional **\_O**, those available via RemoteNEPS with **\_R** and Download files with **\_D**. The same procedure applies when it comes to variable differentiation. A variable which is available unaltered OnSite only is suffixed with **\_O**. In RemoteNEPS-access or Download, this variable is still present but purged. If there is an alternate version (e.g. with coarsened content) for RemoteNEPS (suffix **\_R**) or Download (suffix **\_D**), those can be used. As said before, these are already integrated in the OnSite version. See section 3 for some examples (especially for a practical explanation what is meant by *purging* here).

## 2 Conducted measures

Keeping the usability and the paradigm of information esteem in mind, only very few alterations are actually done to the dataset. Please note that all information is still available somewhere and that only RemoteNEPS and (mainly) the Download version are constraint in this matter. In fact, in this SUF, only 307 out of 3143 variables are modified in some way.

## 2 Conducted measures

The following table gives an explanatory overview of all measures conducted. The remainder of this section gives a more detailed description of those topics.

**Table 1:** Availability of sensitive data

Topic	OnSite	RemoteNEPS	Download
String variables	anonymized	n/a	n/a
International <sup>1</sup>	full data	full data	collapsed
Regional (National)	restricted	restricted	restricted
Institutional context	full data	anonymized	n/a
Macro indicators	accessible	n/a	n/a
Others	full data	full data	aggregated

<sup>1</sup> international geographical information (e.g., nation states, national languages)

### 2.1 String variables

All variables containing actual text and whose type is therefore string are purged in the RemoteNEPS version. The information remains accessible OnSite. However, you should be aware that in the majority of cases, text entries have been recoded into derived variables (usually suffixed with \_g1, \_g2, etc.), which contain the information collected. Those variables are available in all three levels, only the actual text entry is available OnSite only. The text entries have been reviewed by staff to ensure that absolutely no reidentificational material is included. To indicate the availability of those variables OnSite only, the variable names have been suffixed with an additional \_O.

**Table 2:** All string variables; those are only available onsite

file	variable	label
pTargetCATI	t272800	Specialized fair/congress: Content
pTargetCATI	t272801	Specialist lecture: Content
pTargetCATI	t272804	Self-instruction program: Content
pTargetCATI	t731302	Mother's other school-leaving qualification
pTargetCATI	t731304	other training qualification, mother (open)
pTargetCATI	t731307	Other type of degree, mother (open)
pTargetCATI	t731352	Other school-leaving qualification, father
pTargetCATI	t731354	Other educational institution, father (open)
pTargetCATI	t731357	Other type of degree, father (open)
pTargetCATI	tg13002	Alternative to a degree, specific
pTargetCAWI	t24100s	Other types of counseling offered by university, open
pTargetCAWI	t24210t	University activities: other open

(...)

## 2 Conducted measures

**Table 2:** (continued)

file	variable	label
pTargetCAWI	t26280t	Scope of voluntary activities: sports and exercise, open
pTargetCAWI	t26281t	Scope of voluntary activities: culture and music, open
pTargetCAWI	t26282t	Scope of voluntary activities: leisure and social groups, open
pTargetCAWI	t26283t	Scope of voluntary activities: social service other, open
pTargetCAWI	t26284t	Scope of voluntary activities: health other, open
pTargetCAWI	t26285t	Scope of voluntary activities: school or nursery other, open
pTargetCAWI	t26286t	Scope of voluntary activities: leisure and social groups, other, open
pTargetCAWI	t26287t	Scope of voluntary activities: environment, nature conservation and/or animal we
pTargetCAWI	t26288t	Scope of voluntary activities: politics other, open
pTargetCAWI	t26289t	Scope of voluntary activities: professional advocacy outside the workplace other
pTargetCAWI	t26290t	Scope of voluntary activities: church, religion other, open
pTargetCAWI	t26291t	Scope of voluntary activities: justice and crime-fighting other, open
pTargetCAWI	t26292t	Scope of voluntary activities: accident and emergency services other, open
pTargetCAWI	t26293t	Scope of voluntary activities: civic activities other, open
pTargetCAWI	t29151s	other sources of information, open
pTargetCAWI	t29172n	Admission Master's degree: Other open
pTargetCAWI	t29175i	Other opportunities to gain information and obtain qualifications, open
pTargetCAWI	t29180h	Reasons not looking for job after compl. (BA) degree: Open
pTargetCAWI	t29182i	Reasons for not looking for a job after completing degree course, open
pTargetCAWI	t29184n	Other difficulties, open
pTargetCAWI	t29186m	Other sources of information, open
pTargetCAWI	t406711	Mother's other leaving qualification SU
pTargetCAWI	t406731	Mother's other leaving qualification Turkey
pTargetCAWI	t406811	Father's other leaving qualification SU
pTargetCAWI	t406831	Father's other leaving qualification Turkey
pTargetCAWI	t531009	Other tuition collection interval, open
pTargetCAWI	t531029	Other source of funding
pTargetCAWI	tg5110s	Curr. activity: Other (Text)
pTargetCAWI	tg5120s	Degree course organization semesters/trimesters, open
pTargetCAWI	tg5141s	Other leaving qualification sought after change, open
spChild	ts33211	Other status of employment child (open data)
spChild	ts33213	Other type of school child
spChild	ts33215	Other school-leaving certificate child
spChild	ts33217	Other training child
spChild	ts33219	Other type of degree child
spChild	ts33221	Other vocational qualification, child (open)
spChild	ts33222	Another educational institution (open)

(...)

## 2 Conducted measures

**Table 2:** (continued)

file	variable	label
spChild	ts33224	Other type of degree, child (open)
spChild	ts33226	Other institution conferring degree to child (open)
spCourses	t272011_w1	Contents of course
spCourses	t272011_w2	Course content
spCourses	t272011_w3	Course content
spEmp	tg2608c	Other type of student gainful activity
spFurtherEdu1	t272000	Content of other course
spFurtherEdu2	t272044	Type of certificate
spGap	ts29102	Other activity
spPartner	ts31213	Other school-leaving qualification of partner
spPartner	ts31215	Other vocational qualification of partner (open)
spPartner	ts31218	Other degree from a university / institute of higher education, partner (open)
spSchool	t724806	1st 'Abitur' subject, open
spSchool	t724807	2nd 'Abitur' subject, open
spSchool	t724808	3rd 'Abitur' subject, open
spSchool	t724809	4th 'Abitur' subject, open
spSchool	t724810	5th 'Abitur' subject, open
spSchool	t724902	occupational focus, open
spSchool	ts11206	Another type of school
spSchool	ts11212	Other school-leaving qualification
spSchool	ts11217	other school-leaving qualification aspired to
spVocExtExam	ts15305	Other external examination qualification
spVocTrain	tg24202	Exact teaching qualification
spVocTrain	ts15202	another type of vocational training course
spVocTrain	ts15220	other vocational qualification
spVocTrain	ts15222	Other qualification (open)

### 2.2 International: countries, languages, and nationalities

All information corresponding to international localization, nationality or languages is completely available only OnSite or via RemoteNEPS. Variables comprised in the Download SUF are aggregated into larger categories – mainly allocating continents and, in detail, states in Europe. For a complete recoding map of all countries/languages/nationalities, see appendix section A.2. This recoding rule was initially based on the methods used for the IAB ALWA study (Antoni et al., 2010) and the recommendations given by Müller, Blien, and Knoche, 1991. It has been updated and adjusted to better serve the data user's needs. Please note that this aggregated version is generated not during the anonymization process, but as an additional derived variable. Therefore, you do not find a variable suffixed `_D`, but two derived variables (suffixed `_g1` and `_g2`), where only the first has an anonymization suffix (i.e. `_g1R`), indicating that the full information is available in RemoteNEPS only.



## 2 Conducted measures

**Table 3:** All variables which are affected by country/language/nationality aggregation

file	variable	label
pTargetCATI	t405010_g1	Country of place of birth
pTargetCATI	t405070_g1	Country of birth, mother
pTargetCATI	t405081_g1	Country of residence, mother
pTargetCATI	t405100_g1	Country of birth father
pTargetCATI	t405111_g1	Country of residence, father
pTargetCATI	t405220_g1	Country of birth, mother's mother
pTargetCATI	t405230_g1	Country of birth, mother's father
pTargetCATI	t405240_g1	Country of birth, father's mother
pTargetCATI	t405250_g1	Country of birth, father's father
pTargetCATI	t751004_g1	Country of residence (abroad)
pTargetCAWI	t29173e	Country of desired institution of higher education (destatis)
pTargetCAWI	t42800x_g1	Selection country of origin (destatis)
pTargetCAWI	t42802x_g1	Preload: Country of origin (destatis)
pTargetCAWI	tg51510	Country of the new university
spEmp	ts23239_g1	Location of workplace
spPartner	t407021_g1	partner: Place of residence
spPartner	ts31205_g1	Partner's country of birth
spPartner	ts31208_g1	Country of birth of (male) partner's father
spPartner	ts31210_g1	Country of birth of partner's mother
spSchool	ts1120s_g1	School country
spSchoolExtExam	ts11301_g1	Country of school-leaving qualification
spVocExtExam	ts15303_g1	Country of external examination
spVocTrain	tg24196_g1	First country of stay abroad
spVocTrain	tg24198_g1	2nd country of stay abroad
spVocTrain	tg2420e_g1	Preferred country for Master's degree
spVocTrain	ts1521s_g1	Country in which training took place
pTargetCATI	t414000_g1	First native language (ISO 639.2)
pTargetCATI	t414002_g1	Second native language (ISO 639.2)
pTargetCATI	t414060_g1	Aux. variable: Language of origin target (ISO 639.2)
pTargetCATI	t414100_g1	Mother: First language/native language (ISO 639.2)
pTargetCATI	t414120_g1	Father: First language/native language (ISO 639.2)
pTargetCATI	t418001_g1	Foreign language Reading profession (ISO 639.2)
pTargetCATI	t418011_g1	Foreign language Reading spare time (ISO 639.2)
pTargetCATI	t418021_g1	Foreign language reading studying (ISO 639.2)
pTargetCATI	t406100_g1	other nationality

### 2.3 Regional localization

For all variables which register a regional position – such as places of birth, work, school, or residence – the following variables have been generated (if possible):

- an indicator for West Germany and East Germany (including Berlin)

## 2 Conducted measures

- the federal state for this location,
- the administrative region, and
- the administrative district,

the latter two only available in RemoteNEPS. Regional localization below this level is not directly available. If you have need to merge data using a regional key below those levels, please contact the LifBi RDC (fdz@lifbi.de), which may deal with this matter for you.

**Table 4:** All regional variables which are only available in RemoteNEPS

file	variable	label
MethodsCompetencies	tx80101	Sample:federal states
pTargetCATI	t700101_g2	Municipality of birth (federal state)
pTargetCATI	t700101_g3	Municipality of birth (RS region)
pTargetCATI	t700101_g4	Municipality of birth (RS administrative district)
pTargetCATI	t751001_g2	Municipality of Living (RS federal state)
pTargetCATI	t751001_g3	Municipality of living (RS region)
pTargetCATI	t751001_g4	Municipality of living (RS administrative district)
pTargetCAWI	t29173g	Federal state in which institute of higher education of choice is located
pTargetCAWI	tg51511	State of the new university
spEmp	ts23237_g2	Place of workplace (RS federal state)
spEmp	ts23237_g3	Place of workplace (RS region)
spEmp	ts23237_g4	Place of workplace (RS administrative district)
spSchool	tg2232b_g2	Community name of UEQ acquisition (RS federal state)
spSchool	tg2232b_g3	Community name of UEQ acquisition (RS region)
spSchool	tg2232b_g4	Community name of UEQ acquisition (RS administrative district)
spSchool	ts11202_g2	Municipality of school (federal state)
spSchool	ts11202_g3	Municipality of school (RS region)
spSchool	ts11202_g4	Municipality of school (RS administrative district)
spVocPrep	ts13105_g2	Municipality of measure (RS federal state)
spVocPrep	ts13105_g3	Municipality of measure (RS region)
spVocPrep	ts13105_g4	Municipality of measure (RS administrative district)
spVocTrain	ts15207_g2	Municipality of vocational training center (RS federal state)
spVocTrain	ts15207_g3	Municipality of vocational training center (RS region)
spVocTrain	ts15207_g4	Municipality of vocational training center (RS administrative district)

## 2 Conducted measures

### 2.4 Institutional characteristics

In this Starting Cohort, also information about institutions is available. A special focus of anonymization was directed to protection of institutional data, i.e. information about kindergarten, schools, and universities, but also educators and teachers. To minimize the risk of re-identification, this data is only available in RemoteNEPS. This includes the complete datafile(s) `xInstitution`,

but may also affect basic structural details about the group or class (e.g. size of class) in other datafiles. Also, to prevent universities from being disclosed by its individual offer of field and course of studies, these information is available only at the most aggregated value (i.e. first digit of ISCED-97) in the Download version. Furthermore, personal information about educators and teachers is treated more securely. You will find detailed information about these subjects from RemoteNEPS onward. Refer to section 2.6 to see the affected variables.

### 2.5 Macro indicators

Additional information including structural topography and macroeconomic measures was collected. You find those available OnSite only. The following data is available:

- Microm data, describing the surrounding of the targets residence

### 2.6 Other variables

All other variables affected by anonymization and not classifiable in the previous groups are listed below. In the first table (table 5), you find all variables which were aggregated in the Download-SUF. An additional table below each entry displays the values of the variable, both as found in RemoteNEPS (if table column is empty, the variable is numeric and does not have a value label scheme) and in Download.

The second table (table 6) contains all variables which are not aggregated, but purged completely in the Download-version, that is, there is no aggregated version.

## 2 Conducted measures

**Table 5:** Other variables which were aggregated in the Download-SUF (aggregation is also stated)

[file] variable: label		
[pTargetCATI] t731406: Number of mother's employees (categorized)		
<b>RemoteNEPS</b>		<b>Download</b>
1 to 4	<b>1</b>	1 to 4
5 to 9	<b>2</b>	5 to 9
10 to 19	<b>3</b>	10 to 19
20 to 49	<b>4</b>	20 and more
50 to 99	<b>5</b>	
100 to 199	<b>6</b>	
200 to 249	<b>7</b>	
250 to 499	<b>8</b>	
500 to 999	<b>9</b>	
1,000 to 1,999	<b>10</b>	
2,000 and more	<b>11</b>	
[pTargetCATI] t731456: Number of father's employees (categorized)		
<b>RemoteNEPS</b>		<b>Download</b>
1 to 4	<b>1</b>	1 to 4
5 to 9	<b>2</b>	5 to 9
10 to 19	<b>3</b>	10 to 19
20 to 49	<b>4</b>	20 and more
50 to 99	<b>5</b>	
100 to 199	<b>6</b>	
200 to 249	<b>7</b>	
250 to 499	<b>8</b>	
500 to 999	<b>9</b>	
1,000 to 1,999	<b>10</b>	
2,000 and more	<b>11</b>	
[spEmp] ts23210: Number of employees/workers (categorized)		
<b>RemoteNEPS</b>		<b>Download</b>
under 5	<b>1</b>	1 to 4
5 to 9	<b>2</b>	5 to 9
10 to 19	<b>3</b>	10 to 19
20 to 49	<b>4</b>	20 and more
50 to 99	<b>5</b>	
100 to 199	<b>6</b>	
200 to 249	<b>7</b>	
250 to 499	<b>8</b>	
500 to 999	<b>9</b>	
1,000 to 1,999	<b>10</b>	
2,000 and more	<b>11</b>	

(...)

## 2 Conducted measures

**Table 5:** (continued)

[file] variable: label

[spPartner] ts31229: Number of employees partner (categorized)

RemoteNEPS		Download
1 to less than 5 persons	1	1 to 4
5 to less than 10 persons	2	5 to 9
10 to less than 20 persons	3	10 to 19
20 to less than 50 persons	4	20 and more
50 to less than 100 persons	5	
100 to less than 200 persons	6	
200 to less than 250 persons	7	
250 to less than 500 persons	8	
500 to less than 1.000 persons	9	
1.000 to less than 2.000 persons	10	
2.000 persons and more	11	

**Table 6:** Other variables which were purged in the Download-SUF

file	variable	label
Weights	sLevel	Stratification second level
pTargetCATI	tg04001_g1	Study area Subject 1 WS 2010 (destatis)
pTargetCATI	tg04001_g2	Division of study areas Sample subject 1 WS 2010 (destatis)
pTargetCATI	tg04001_g4	ISCED-97 Subject 1 WS 2010 (3-digit level)
pTargetCATI	tg04001_g5	ISCED-97 Subject 1 WS 2010 (2-digit level)
pTargetCATI	tg04004_g1	Study area Subject 2 WS 2010 (destatis)
pTargetCATI	tg04004_g2	Division of study areas Sample subject 2 WS 2010 (destatis)
pTargetCATI	tg04004_g4	ISCED-97 subject 2 WS 2010 (3-digit level)
pTargetCATI	tg04004_g5	ISCED-97 subject 2 WS 2010 (2-digit level)
pTargetCATI	tg04007_g1	Study area subject 3 WS 2010 (destatis WS 2012)
pTargetCATI	tg04007_g2	Division of study areas Sample subject 2 WS 2010 (destatis)
pTargetCATI	tg04007_g4	ISCED-97 subject 3 WS 2010 (3-digit level)
pTargetCATI	tg04007_g5	ISCED-97 subject 3 WS 2010 (2-digit level)
pTargetCATI	tg12001_g1	Desired subject 1 (destatis)
pTargetCATI	tg12002_g1	Desired subject 2 (destatis)
pTargetCAWI	t242400_g1	Auxiliary variable: Area of studies reference subject questions about learning e

(...)

## 2 Conducted measures

**Table 6:** (continued)

file	variable	label
pTargetCAWI	t242400_g3	Auxiliary variable: ISCED-97 reference subject questions about learning environm
pTargetCAWI	t242400_g4	Auxiliary variable: ISCED-97 reference subject questions about learning environm
pTargetCAWI	t29173b_g1	Subject desired subject master (destatis)
pTargetCAWI	t29173b_g3	ISCED-97 Desired subject master (3-digit)
pTargetCAWI	t29173b_g4	ISCED-97 Desired subject master (2-digit)
pTargetCAWI	t435030_g1	other religious community
pTargetCAWI	t531011	Amount of tuition fees
pTargetCAWI	tg51311_g1	Area of studies subject 1 (destatis)
pTargetCAWI	tg51311_g3	ISCED-97 subject 1 (3-digit level)
pTargetCAWI	tg51311_g4	ISCED-97 subject 1 (2-digit level)
pTargetCAWI	tg51321_g1	Area of studies subject 2 (destatis)
pTargetCAWI	tg51321_g3	ISCED-97 subject 2 (3-digit level)
pTargetCAWI	tg51321_g4	ISCED-97 subject 2 (2-digit level)
pTargetCAWI	tg51331_g1	Area of studies subject 3 (destatis)
pTargetCAWI	tg51331_g3	ISCED-97 subject 3 (3-digit level)
pTargetCAWI	tg51331_g4	ISCED-97 subject 3 (2-digit level)
spVocTrain	tg24160_g1	Subject subject 1 (destatis)
spVocTrain	tg24160_g3	ISCED-97 subject 1 (3-digit level)
spVocTrain	tg24160_g4	ISCED-97 subject 1 (2-digit level)
spVocTrain	tg24163_g1	Area of studies subject 2 (destatis)
spVocTrain	tg24163_g3	ISCED-97 subject 2 (3-digit level)
spVocTrain	tg24163_g4	ISCED-97 subject 2 (2-digit level)
spVocTrain	tg24166_g1	Area or studies subject 3 (destatis)
spVocTrain	tg24166_g3	ISCED-97 subject 3 (3-digit level)
spVocTrain	tg24166_g4	ISCED-97 subject 3 (2-digit level)
xInstitution	tg91102	University region: BIK-region type
xInstitution	tg91103	University region: BIK-structure type
xInstitution	tg91104	University region: BIK-7 class of municipality size
xInstitution	tg91105	University region: BIK-10 class of municipality size
xInstitution	tg91106	University region: BBSR community type
xInstitution	tg91107	University region: BBSR district type
xInstitution	tg91108	University region: BBSR composite district type

(...)

## 2 Conducted measures

**Table 6:** (continued)

file	variable	label
xInstitution	tg91109	University region: BBSR basic region type
xInstitution	tg91110	University region: BBSR differentiated basic region type
xInstitution	tg91111	University region: Population density 2009 in the county
xInstitution	tg91112	University region: Population-employment-density 2009 in the county
xInstitution	tg91113	University region: Population density 2009 in the regional planning area
xInstitution	tg91114	University region: Population-employment-density 2009 in the regional planning a
xInstitution	tg91201	University region: Unemployment rate 2009 in the county
xInstitution	tg91202	University region: Proportion long-term unemployed 2008 in the county
xInstitution	tg91203	University region: Proportion low-skilled employees 2009 in the county
xInstitution	tg91204	University region: Proportion high-skilled employees 2009 in the county
xInstitution	tg91301	University region: Proportion Population beyond 15 y. with university degree 200
xInstitution	tg91401	University region: Gross domestic product per inhabitant 2009 in the county
xInstitution	tg91402	University region: Monthly household income 2009 in the county
xInstitution	tg91403	University region: Community debts per inhabitant 2009 in the county
xInstitution	tg91502	HS region: Western Germany/Eastern Germany/Berlin
xInstitution	tg91601	University region: Proportion employees in FuE 2007 in the county
xInstitution	tg91602	University region: Proportion employees in secondary sector 2009 in the county
xInstitution	tg91603	University region: Proportion employees in the tertiary sector 2009 in the count
xInstitution	tg91604	University region: Service rate 2009 in the county
xInstitution	tg91605	University region: Proportion employees enterprise related services 2009 in the

(...)

## 2 Conducted measures

**Table 6:** (continued)

file	variable	label
xInstitution	tg91606	University region: Proportion employees in creative sectors 2009 in the county
xInstitution	tg91607	University region: Average number employees in agriculture/wood/fishing 2009 in
xInstitution	tg91608	University region: Average number employees in manufacturing industry or buildin
xInstitution	tg91609	University region: Average number employees in building industry 2009 in the cou
xInstitution	tg91610	University region: Average number employees in trade/customer/traffic 2009 in th
xInstitution	tg91611	University region: Durchschn. Anz. Erw. Finanz./Vermietung/Untern.-DL 2009 im La
xInstitution	tg91612	University region: Average number employees in public/private services 2009 in t
xInstitution	tg91613	University region: Number of current businesses with 0-9 employees 2009 in the c
xInstitution	tg91614	University region: Number of current businesses with 10-49 employees 2009 in the
xInstitution	tg91615	University region: Number of current businesses with 50-249 employees 2009 in th
xInstitution	tg91616	University region: Number of current businesses with 250+ employees 2009 in the
xInstitution	tg92101	University: Nomination future concept 2006 or 2007
xInstitution	tg92102	University: Winner future concept 2006 or 2007
xInstitution	tg92103	University: Nomination Cluster of excellence 2006 or 2007
xInstitution	tg92104	University: Winner Cluster of excellence 2006 or 2007
xInstitution	tg92105	University: Nomination graduate school 2006 or 2007
xInstitution	tg92106	University: Winner graduate school 2006 or 2007
xInstitution	tg92301	University: Funding body
xInstitution	tg92401	University: Type of university
xInstitution	tg92501	University: Finalist Excellent teaching 2009
xInstitution	tg92502	University: Winner Excellent teaching 2009
xInstitution	tg92601	University: Students 2010 total

(...)



## 2 Conducted measures

**Table 6:** (continued)

file	variable	label
xInstitution	tg92602	University: Beginning students 2010 (1st semester) total
xInstitution	tg92701	University: Students 2010: Germans
xInstitution	tg92702	University: Students 2010: Educational residents
xInstitution	tg92703	University: Students 2010: Foreign students
xInstitution	tg92704	University: Students 2010: male
xInstitution	tg92705	University: Students 2010: female
xInstitution	tg92706	University: Beginning students 2010 (1st semester): Germans
xInstitution	tg92707	University: Beginning students 2010 (1st semester): Educational residents
xInstitution	tg92708	University: Beginning students 2010 (1st semester): Foreign students
xInstitution	tg92709	University: Beginning students 2010 (1st semester): male
xInstitution	tg92710	University: Beginning students 2010 (1st semester): female
xInstitution	tg92801	University: Students 2010: Subject group sports/language/cultural sciences
xInstitution	tg92802	University: Students 2010: Subject group Law
xInstitution	tg92803	University: Students 2010: Subject group Business
xInstitution	tg92804	University: Students 2010: Subject group Social science
xInstitution	tg92805	University: Students 2010: Subject group mathematics/natural science
xInstitution	tg92806	University: Students 2010: Subject group medicine/health science
xInstitution	tg92807	University: Students 2010: Subject group veterinary/agricultural/forestry/nutrit
xInstitution	tg92808	University: Students 2010: Subject group engineering
xInstitution	tg92809	University: Students 2010: Subject group art/art science
xInstitution	tg92810	University: Students 2010: Other subjects
xInstitution	tg93101	Subject group: Students 2010
xInstitution	tg93102	Subject group: Beginning students 2010 (1st semester) 2010

(...)

## 2 Conducted measures

**Table 6:** (continued)

file	variable	label
xInstitution	tg93201	Subject group: Students 2010: Germans
xInstitution	tg93202	Subject group: Students 2010: Educational residents
xInstitution	tg93203	Subject group: Students 2010: Foreign students
xInstitution	tg93204	Subject group: Students 2010: male
xInstitution	tg93205	Subject group: Students 2010: female
xInstitution	tg93206	Subject group: Beginning students 2010 (1st semester): Germans
xInstitution	tg93207	Subject group: Beginning students 2010 (1st semester): Educational residents
xInstitution	tg93208	Subject group: Beginning students 2010 (1st semester): Foreign students
xInstitution	tg93209	Subject group: Beginning students 2010 (1st semester): male
xInstitution	tg93210	Subject group: Beginning students 2010 (1st semester): female
xInstitution	tg93301	Subject group: Regular basic resources 2010
xInstitution	tg93302	Subject group: External funds for teaching and research in general 2010
xInstitution	tg93401	Subject groups: Number of professors
xInstitution	tg93402	Subject group: Number of professors: male
xInstitution	tg93403	Subject group: Number of professors: female
xInstitution	tg93404	Subject group: full-time equivalent professors
xInstitution	tg93405	Subject group: full-time equivalent professors: male
xInstitution	tg93406	Subject group: full-time equivalent professors: female
xInstitution	tg93407	Subject group: Number of lecturers, assistants, scientific/artistic employees
xInstitution	tg93408	Subject group: Number of lecturers, assistants, scientific/artistic employees: m
xInstitution	tg93409	Subject group: Number of lecturers, assistants, scientific/artistic employees: f
xInstitution	tg93410	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e
xInstitution	tg93411	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e

(...)

**Table 6:** (continued)

file	variable	label
xInstitution	tg93412	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e
xInstitution	tg93413	Subject group: Number of lecturers, assistants, scientific/artistic employees wi
xInstitution	tg93414	Subject group: Number of lecturers, assistants, scientific/artistic employees w
xInstitution	tg93415	Subject group: Number of lecturers, assistants, scientific/artistic employees w
xInstitution	tg93416	Subject group: Full-time equivalent lecturers, assistants, scientific/artistic e
xInstitution	tg93417	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e
xInstitution	tg93418	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e
xInstitution	tg93419	Subject group: Number of teaching staff for special tasks
xInstitution	tg93420	Subject group: Number of teaching staff for special tasks: male
xInstitution	tg93421	Subject group: Number of teaching staff for special tasks: female
xInstitution	tg93422	Subject group: full-time equivalent teaching staff for special tasks
xInstitution	tg93423	Subject group: full-time equivalent teaching staff for special tasks: male
xInstitution	tg93424	Subject group: full-time equivalent teaching staff for special tasks: female
xInstitution	tg93425	Subject group: Number of part-time lecturers
xInstitution	tg93426	Subject group: Number of part-time lecturers: male
xInstitution	tg93427	Subject group: Number of part-time lecturers: female
xInstitution	tg93428	Subject group: full-time equivalent part-time lecturers
xInstitution	tg93429	Subject group: full-time equivalent part-time lecturers: male
xInstitution	tg93430	Subject group: full-time equivalent part-time lecturers: female
xInstitution	tg93501	Subject group: external funds per professor

(...)

**Table 6:** (continued)

file	variable	label
xInstitution	tg93601	Subject group: students per professor
xInstitution	tg93602	Subject group: Students per lecturers, assistants, scientific/artistic employees

## 3 Examples

The following examples compare variables from some selected topics. On the left side, you see these variables as they can be found in the RemoteNEPS-SUF (i.e., this is the variant of the variable which contains the full information). On the right side, you find the same variables, but from the Download-version of the SUF, that is, the aggregated or purged variant of the variable. This illustrates the anonymization applied.

### 3.1 Number of employees

The first example is a variable collected during the interview of Starting Cohort 6 (Adults). The question further investigates the occupational periphery of employers, while here, this employer is the mother of the respondent. On the left, you see the complete information as found in the RemoteNEPS-SUF. This variable is collected using seven classes, where the last four are sparsely filled (variable `t731406_R`, table on the lower left). Because of this, those four codes have been recoded into one category (*»20 and more«*) and a new variable is generated (`t731406_D`, upper left). In the Download-SUF, you find this aggregated variable unaltered (upper right). The variable `t731406_R` rich in content was purged, though. You see that all meaningful codes have been recoded to *»-53 Anonymized«*. Note that the missing code *»-54 Missing by design«* is transported to the Download-SUF unmodified, so you already can derive the actual *statistical power* of this variable.

### 3 Examples

RemoteNEPS	Download																																																																																																		
<p>SC6_pTarget_R_5-1-0.dta (NEPS SUF, SC6 5.1.0 (remote); doi:10.5157/NEPS:SC6:5.1.0)</p> <p>t731406_D -- Number of mother's employees (categorized)</p> <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>7</td></tr> <tr><td>-97 Refused</td><td>1</td></tr> <tr><td>-54 Missing by design</td><td>36700</td></tr> <tr><td>0 none</td><td>423</td></tr> <tr><td>1 1 to 4</td><td>330</td></tr> <tr><td>2 5 to 9</td><td>64</td></tr> <tr><td>3 10 to 19</td><td>22</td></tr> <tr><td>4 20 and more</td><td>28</td></tr> <tr><td>Total</td><td>37575</td></tr> <tr><td>Missing .</td><td>15982</td></tr> <tr><td>Total</td><td>53557</td></tr> </table> <p>t731406_R -- Number of mother's employees</p> <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>7</td></tr> <tr><td>-97 Refused</td><td>1</td></tr> <tr><td>-54 Missing by design</td><td>36700</td></tr> <tr><td>0 None</td><td>423</td></tr> <tr><td>1 1 to 4</td><td>330</td></tr> <tr><td>2 5 to 9</td><td>64</td></tr> <tr><td>3 10 to 19</td><td>22</td></tr> <tr><td>4 20 to 49</td><td>21</td></tr> <tr><td>5 50 to 99</td><td>3</td></tr> <tr><td>6 100 to 199</td><td>3</td></tr> <tr><td>7 200 to 249</td><td>1</td></tr> <tr><td>Total</td><td>37575</td></tr> <tr><td>Missing .</td><td>15982</td></tr> <tr><td>Total</td><td>53557</td></tr> </table>		Freq.	Valid		-98 Don't know	7	-97 Refused	1	-54 Missing by design	36700	0 none	423	1 1 to 4	330	2 5 to 9	64	3 10 to 19	22	4 20 and more	28	Total	37575	Missing .	15982	Total	53557		Freq.	Valid		-98 Don't know	7	-97 Refused	1	-54 Missing by design	36700	0 None	423	1 1 to 4	330	2 5 to 9	64	3 10 to 19	22	4 20 to 49	21	5 50 to 99	3	6 100 to 199	3	7 200 to 249	1	Total	37575	Missing .	15982	Total	53557	<p>SC6_pTarget_D_5-1-0.dta (NEPS SUF, SC6 5.1.0 (download); doi:10.5157/NEPS:SC6:5.1.0)</p> <p>t731406_D -- Number of mother's employees (categorized)</p> <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>7</td></tr> <tr><td>-97 Refused</td><td>1</td></tr> <tr><td>-54 Missing by design</td><td>36700</td></tr> <tr><td>0 none</td><td>423</td></tr> <tr><td>1 1 to 4</td><td>330</td></tr> <tr><td>2 5 to 9</td><td>64</td></tr> <tr><td>3 10 to 19</td><td>22</td></tr> <tr><td>4 20 and more</td><td>28</td></tr> <tr><td>Total</td><td>37575</td></tr> <tr><td>Missing .</td><td>15982</td></tr> <tr><td>Total</td><td>53557</td></tr> </table> <p>t731406_R -- Number of mother's employees</p> <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-54 Missing by design</td><td>36700</td></tr> <tr><td>-53 Anonymized</td><td>875</td></tr> <tr><td>Total</td><td>37575</td></tr> <tr><td>Missing .</td><td>15982</td></tr> <tr><td>Total</td><td>53557</td></tr> </table>		Freq.	Valid		-98 Don't know	7	-97 Refused	1	-54 Missing by design	36700	0 none	423	1 1 to 4	330	2 5 to 9	64	3 10 to 19	22	4 20 and more	28	Total	37575	Missing .	15982	Total	53557		Freq.	Valid		-54 Missing by design	36700	-53 Anonymized	875	Total	37575	Missing .	15982	Total	53557
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### 3.2 Countries (aggregated list)

To illustrate the anonymization of countries, first have a look at this variable from Starting Cohort 6 (Adults). The information (*»respondent's country of birth«*) was surveyed during the interview. The collected information was recoded during data processing to different derived variables. The first of those is variable `t405010_g1R`, which contains the complete list of countries (lower left, output is shortened to enhance readability). Also, a second variable `t405010_g2` was generated, using a more coarse list. This is helpful if some information was collected, but it is too inaccurate to identify the country (e.g., if someone states he was born in North America, you do not know if he meant U.S. or Canada). This second variable is transported to the Download-SUF unaltered (upper right), which means it in some way represents the anonymized version. The first variable `t405010_g1R` with the full information is purged in the Download-SUF.

### 3 Examples

RemoteNEPS	Download																																																																																				
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121 albania	4																																																																																				
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### 3.3 Countries (binary variable)

In school cohorts, an aggregation of countries is coarsened to the binary information German/Non-German. To illustrate this, have a look at variables from Starting Cohort 2 (Kindergarten). The information (*»country of birth target child«*) was surveyed during the interview using a two-step procedure: first, the respondent is asked if the child was born in Germany or abroad (variable p406000, top left). This variable is not subject to anonymization and therefore does not have a suffix and is equally existent in both SUF-versions. If the child was born abroad, a second question regarding the specific country followed (variable p406010\_g1R, lower left, output is reduced to enhance readability). This second question is purged in the Download-SUF (lower right). There is no need to generate an additional anonymized version of this second question, as the information is already present in the first shown variable (p406000).

### 3 Examples

RemoteNEPS	Download																																																																								
<p>SC2_pParent_R_3-0-0.dta (NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0)</p> <p>p406000 -- Target child born in Germany?</p> <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>1 Yes</td><td>7658</td></tr> <tr><td>2 No</td><td>173</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table> <p>p406010_g1R -- Country of birth target child</p> <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>-20 Abroad, but not codeable</td><td>1</td></tr> <tr><td>0 germany</td><td>7658</td></tr> <tr><td>124 belgium</td><td>2</td></tr> <tr><td>125 bulgaria</td><td>5</td></tr> <tr><td>:</td><td>:</td></tr> <tr><td>475 syrian arab republic</td><td>2</td></tr> <tr><td>476 thailand</td><td>2</td></tr> <tr><td>479 china</td><td>4</td></tr> <tr><td>536 new zealand</td><td>1</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table>		Freq.	Valid		-98 Don't know	1	1 Yes	7658	2 No	173	Total	7832	Missing .	3545	Total	11377		Freq.	Valid		-98 Don't know	1	-20 Abroad, but not codeable	1	0 germany	7658	124 belgium	2	125 bulgaria	5	:	:	475 syrian arab republic	2	476 thailand	2	479 china	4	536 new zealand	1	Total	7832	Missing .	3545	Total	11377	<p>SC2_pParent_D_3-0-0.dta (NEPS SUF, SC2 3.0.0 (download); doi:10.5157/NEPS:SC2:3.0.0)</p> <p>p406000 -- Target child born in Germany?</p> <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-98 Don't know</td><td>1</td></tr> <tr><td>1 Yes</td><td>7658</td></tr> <tr><td>2 No</td><td>173</td></tr> <tr><td>Total</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table> <p>p406010_g1R -- Country of birth target child</p> <table> <tr><th></th><th>Freq.</th></tr> <tr><td>Valid</td><td></td></tr> <tr><td>-53 Anonymized</td><td>7832</td></tr> <tr><td>Missing .</td><td>3545</td></tr> <tr><td>Total</td><td>11377</td></tr> </table>		Freq.	Valid		-98 Don't know	1	1 Yes	7658	2 No	173	Total	7832	Missing .	3545	Total	11377		Freq.	Valid		-53 Anonymized	7832	Missing .	3545	Total	11377
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#### 3.4 Federal states

Regional locations are usually recoded to different derived variables (see section 2.3). In this example, we focus on the region of the school in Starting Cohort 3 (5th graders). The first derived variable is a binary variable for Western and Eastern Germany (tx80109\_g1), present in both SUF-versions (upper left and upper right). The second variable tx80109\_g2R, containing the federal states, is only complete in the RemoteNEPS-SUF (lower left), and is purged in the Download-SUF (lower right).

### 3 Examples

RemoteNEPS

Download

SC3\_CohortProfile\_R\_3-1-0.dta

(NEPS SUF, SC3 3.1.0 (remote); doi:10.5157/NEPS:SC3:3.1.0)

tx80109\_g1 -- Sample: Federal state school (west/east)

	Freq.
Valid -55 Not determinable	458
1 Western Germany	16299
2 Eastern Germany incl. Berlin	3784
Total	20541

tx80109\_g2R -- Sample: Federal state school

	Freq.
Valid -55 Not determinable	458
1 Schleswig-Holstein	784
2 Hamburg	377
3 Lower Saxony	2209
4 Bremen	158
5 North Rhine-Westphalia	4398
6 Hesse	1308
7 Rhineland-Palatinate	971
8 Baden-Wuerttemberg	3265
9 Bavaria	2677
10 Saarland	152
11 Berlin (Complete)	404
12 Brandenburg	1143
13 Mecklenburg-Western Pomerania	619
14 Saxony	617
15 Saxony-Anhalt	401
16 Thuringia	600
Total	20541

SC3\_CohortProfile\_D\_3-1-0.dta

(NEPS SUF, SC3 3.1.0 (download); doi:10.5157/NEPS:SC3:3.1.0)

tx80109\_g1 -- Sample: Federal state school (west/east)

	Freq.
Valid -55 Not determinable	458
1 Western Germany	16299
2 Eastern Germany incl. Berlin	3784
Total	20541

tx80109\_g2R -- Sample: Federal state school

	Freq.
Valid -53 Anonymized	20541

#### 3.5 Class size

Sometimes, variables are collected numerical. In the example below, the number of students in class was surveyed from the educator in Starting Cohort 2 (Kindergarten) without any further regulations. Thus, the resulting variable e227400\_g1R (lower left) does not have a coding scheme. This variable is aggregated to the variable e227400\_g1D containing six different class-sizes (upper left). You find this aggregated version in both SUF-versions, the full numerical variable is purged in the Download-SUF, though (lower right).



RemoteNEPS	Download																																																																																																						
<div>SC2_pEducator_R_3-0-0.dta (NEPS SUF, SC2 3.0.0 (remote); doi:10.5157/NEPS:SC2:3.0.0)</div> <div>e227400_g1D -- Class: number of students, total (coarsed)</div> <table><tr><td></td><td>Freq.</td></tr><tr><td>Valid -90 Unspecific missing</td><td>10</td></tr><tr><td>-54 Missing by design</td><td>1803</td></tr><tr><td>1 Below 10</td><td>3</td></tr><tr><td>2 10 to 14</td><td>26</td></tr><tr><td>3 15 to 19</td><td>203</td></tr><tr><td>4 20 to 24</td><td>450</td></tr><tr><td>5 25 to 29</td><td>169</td></tr><tr><td>6 30 to 34</td><td>4</td></tr><tr><td>Total</td><td>2668</td></tr></table> <div>e227400_g1R -- Class: number of students total</div> <table><tr><td></td><td>Freq.</td></tr><tr><td>Valid -90 Unspecific missing</td><td>10</td></tr><tr><td>-54 Missing by design</td><td>1803</td></tr><tr><td>8</td><td>3</td></tr><tr><td>10</td><td>1</td></tr><tr><td>11</td><td>1</td></tr><tr><td>12</td><td>4</td></tr><tr><td>13</td><td>8</td></tr><tr><td>14</td><td>12</td></tr><tr><td>15</td><td>21</td></tr><tr><td>16</td><td>22</td></tr><tr><td>17</td><td>34</td></tr><tr><td>18</td><td>58</td></tr><tr><td>19</td><td>68</td></tr><tr><td>20</td><td>75</td></tr><tr><td>21</td><td>89</td></tr><tr><td>22</td><td>98</td></tr><tr><td>23</td><td>88</td></tr><tr><td>24</td><td>100</td></tr><tr><td>25</td><td>83</td></tr><tr><td>26</td><td>39</td></tr><tr><td>27</td><td>27</td></tr><tr><td>28</td><td>14</td></tr><tr><td>29</td><td>6</td></tr><tr><td>30</td><td>3</td></tr><tr><td>31</td><td>1</td></tr><tr><td>Total</td><td>2668</td></tr></table>		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	1 Below 10	3	2 10 to 14	26	3 15 to 19	203	4 20 to 24	450	5 25 to 29	169	6 30 to 34	4	Total	2668		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	8	3	10	1	11	1	12	4	13	8	14	12	15	21	16	22	17	34	18	58	19	68	20	75	21	89	22	98	23	88	24	100	25	83	26	39	27	27	28	14	29	6	30	3	31	1	Total	2668	<div>SC2_pEducator_D_3-0-0.dta (NEPS SUF, SC2 3.0.0 (download); doi:10.5157/NEPS:SC2:3.0.0)</div> <div>e227400_g1D -- Class: number of students, total (coarsed)</div> <table><tr><td></td><td>Freq.</td></tr><tr><td>Valid -90 Unspecific missing</td><td>10</td></tr><tr><td>-54 Missing by design</td><td>1803</td></tr><tr><td>1 Below 10</td><td>3</td></tr><tr><td>2 10 to 14</td><td>26</td></tr><tr><td>3 15 to 19</td><td>203</td></tr><tr><td>4 20 to 24</td><td>450</td></tr><tr><td>5 25 to 29</td><td>169</td></tr><tr><td>6 30 to 34</td><td>4</td></tr><tr><td>Total</td><td>2668</td></tr></table> <div>e227400_g1R -- Class: number of students total</div> <table><tr><td></td><td>Freq.</td></tr><tr><td>Valid -54 Missing by design</td><td>1803</td></tr><tr><td>-53 Anonymized</td><td>865</td></tr><tr><td>Total</td><td>2668</td></tr></table>		Freq.	Valid -90 Unspecific missing	10	-54 Missing by design	1803	1 Below 10	3	2 10 to 14	26	3 15 to 19	203	4 20 to 24	450	5 25 to 29	169	6 30 to 34	4	Total	2668		Freq.	Valid -54 Missing by design	1803	-53 Anonymized	865	Total	2668
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# A Appendix

## A.1 Complete overview

The following table lists all variables which are affected by anonymization methods. For all variables, full information is available OnSite, although for many of them, you already find this complete information in the RemoteNEPS-version. Only for those variables marked with an asterisk, the full information is only present OnSite. For most of the variables, an aggregated or generated version is available, which still transports some information to the Download-version. Please see the previous chapters for more information.

**Table 7:** Complete overview of all restricted variables

file	variable	label (*only available OnSite)
pTargetCATI	t405010_g1	Country of place of birth
pTargetCATI	t405070_g1	Country of birth, mother
pTargetCATI	t405081_g1	Country of residence, mother
pTargetCATI	t405100_g1	Country of birth father
pTargetCATI	t405111_g1	Country of residence, father
pTargetCATI	t405220_g1	Country of birth, mother's mother
pTargetCATI	t405230_g1	Country of birth, mother's father
pTargetCATI	t405240_g1	Country of birth, father's mother
pTargetCATI	t405250_g1	Country of birth, father's father
pTargetCATI	t751004_g1	Country of residence (abroad)
pTargetCAWI	t29173e	Country of desired institution of higher education (destatis)
pTargetCAWI	t42800x_g1	Selection country of origin (destatis)
pTargetCAWI	t42802x_g1	Preload: Country of origin (destatis)
pTargetCAWI	tg51510	Country of the new university
spEmp	ts23239_g1	Location of workplace
spPartner	t407021_g1	partner: Place of residence
spPartner	ts31205_g1	Partner's country of birth
spPartner	ts31208_g1	Country of birth of (male) partner's father
spPartner	ts31210_g1	Country of birth of partner's mother
spSchool	ts1120s_g1	School country
spSchoolExtExam	ts11301_g1	Country of school-leaving qualification
spVocExtExam	ts15303_g1	Country of external examination
spVocTrain	tg24196_g1	First country of stay abroad
spVocTrain	tg24198_g1	2nd country of stay abroad
spVocTrain	tg2420e_g1	Preferred country for Master's degree
spVocTrain	ts1521s_g1	Country in which training took place
pTargetCATI	t414000_g1	First native language (ISO 639.2)
pTargetCATI	t414002_g1	Second native language (ISO 639.2)
pTargetCATI	t414060_g1	Aux. variable: Language of origin target (ISO 639.2)
pTargetCATI	t414100_g1	Mother: First language/native language (ISO 639.2)
pTargetCATI	t414120_g1	Father: First language/native language (ISO 639.2)

(...)

**Table 7:** (continued)

file	variable	label (*only available OnSite)	
pTargetCATI	t418001_g1	Foreign language Reading profession (ISO 639.2)	
pTargetCATI	t418011_g1	Foreign language Reading spare time (ISO 639.2)	
pTargetCATI	t418021_g1	Foreign language reading studying (ISO 639.2)	
pTargetCATI	t406100_g1	other nationality	
pTargetCATI	t272800	Specialized fair/congress: Content	*
pTargetCATI	t272801	Specialist lecture: Content	*
pTargetCATI	t272804	Self-instruction program: Content	*
pTargetCATI	t731302	Mother's other school-leaving qualification	*
pTargetCATI	t731304	other training qualification, mother (open)	*
pTargetCATI	t731307	Other type of degree, mother (open)	*
pTargetCATI	t731352	Other school-leaving qualification, father	*
pTargetCATI	t731354	Other educational institution, father (open)	*
pTargetCATI	t731357	Other type of degree, father (open)	*
pTargetCATI	tg13002	Alternative to a degree, specific	*
pTargetCAWI	t24100s	Other types of counseling offered by university, open	*
pTargetCAWI	t24210t	University activities: other open	*
pTargetCAWI	t26280t	Scope of voluntary activities: sports and exercise, open	*
pTargetCAWI	t26281t	Scope of voluntary activities: culture and music, open	*
pTargetCAWI	t26282t	Scope of voluntary activities: leisure and social groups, open	*
pTargetCAWI	t26283t	Scope of voluntary activities: social service other, open	*
pTargetCAWI	t26284t	Scope of voluntary activities: health other, open	*
pTargetCAWI	t26285t	Scope of voluntary activities: school or nursery other, open	*
pTargetCAWI	t26286t	Scope of voluntary activities: leisure and social groups, other, open	*
pTargetCAWI	t26287t	Scope of voluntary activities: environment, nature conservation and/or animal we	*
pTargetCAWI	t26288t	Scope of voluntary activities: politics other, open	*
pTargetCAWI	t26289t	Scope of voluntary activities: professional advocacy outside the workplace other	*
pTargetCAWI	t26290t	Scope of voluntary activities: church, religion other, open	*
pTargetCAWI	t26291t	Scope of voluntary activities: justice and crime-fighting other, open	*
pTargetCAWI	t26292t	Scope of voluntary activities: accident and emergency services other, open	*
pTargetCAWI	t26293t	Scope of voluntary activities: civic activities other, open	*
pTargetCAWI	t29151s	other sources of information, open	*
pTargetCAWI	t29172n	Admission Master's degree: Other open	*
pTargetCAWI	t29175i	Other opportunities to gain information and obtain qualifications, open	*
pTargetCAWI	t29180h	Reasons not looking for job after compl. (BA) degree: Open	*
pTargetCAWI	t29182i	Reasons for not looking for a job after completing degree course, open	*
pTargetCAWI	t29184n	Other difficulties, open	*
pTargetCAWI	t29186m	Other sources of information, open	*
pTargetCAWI	t406711	Mother's other leaving qualification SU	*

(...)

**Table 7:** (continued)

file	variable	label (*only available OnSite)	
pTargetCAWI	t406731	Mother's other leaving qualification Turkey	*
pTargetCAWI	t406811	Father's other leaving qualification SU	*
pTargetCAWI	t406831	Father's other leaving qualification Turkey	*
pTargetCAWI	t531009	Other tuition collection interval, open	*
pTargetCAWI	t531029	Other source of funding	*
pTargetCAWI	tg5110s	Curr. activity: Other (Text)	*
pTargetCAWI	tg5120s	Degree course organization semesters/trimesters, open	*
pTargetCAWI	tg5141s	Other leaving qualification sought after change, open	*
spChild	ts33211	Other status of employment child (open data)	*
spChild	ts33213	Other type of school child	*
spChild	ts33215	Other school-leaving certificate child	*
spChild	ts33217	Other training child	*
spChild	ts33219	Other type of degree child	*
spChild	ts33221	Other vocational qualification, child (open)	*
spChild	ts33222	Another educational institution (open)	*
spChild	ts33224	Other type of degree, child (open)	*
spChild	ts33226	Other institution conferring degree to child (open)	*
spCourses	t272011_w1	Contents of course	*
spCourses	t272011_w2	Course content	*
spCourses	t272011_w3	Course content	*
spEmp	tg2608c	Other type of student gainful activity	*
spFurtherEdu1	t272000	Content of other course	*
spFurtherEdu2	t272044	Type of certificate	*
spGap	ts29102	Other activity	*
spPartner	ts31213	Other school-leaving qualification of partner	*
spPartner	ts31215	Other vocational qualification of partner (open)	*
spPartner	ts31218	Other degree from a university / institute of higher education, partner (open)	*
spSchool	t724806	1st 'Abitur' subject, open	*
spSchool	t724807	2nd 'Abitur' subject, open	*
spSchool	t724808	3rd 'Abitur' subject, open	*
spSchool	t724809	4th 'Abitur' subject, open	*
spSchool	t724810	5th 'Abitur' subject, open	*
spSchool	t724902	occupational focus, open	*
spSchool	ts11206	Another type of school	*
spSchool	ts11212	Other school-leaving qualification	*
spSchool	ts11217	other school-leaving qualification aspired to	*
spVocExtExam	ts15305	Other external examination qualification	*
spVocTrain	tg24202	Exact teaching qualification	*
spVocTrain	ts15202	another type of vocational training course	*
spVocTrain	ts15220	other vocational qualification	*
spVocTrain	ts15222	Other qualification (open)	*
MethodsCompetencies	tx80101	Sample:federal states	
pTargetCATI	t700101_g2	Municipality of birth (federal state)	
pTargetCATI	t700101_g3	Municipality of birth (RS region)	
pTargetCATI	t700101_g4	Municipality of birth (RS administrative district)	
pTargetCATI	t751001_g2	Municipality of Living (RS federal state)	
pTargetCATI	t751001_g3	Municipality of living (RS region)	

(...)

**Table 7:** (continued)

file	variable	label (*only available OnSite)
pTargetCATI	t751001_g4	Municipality of living (RS administrative district)
pTargetCAWI	t29173g	Federal state in which institute of higher education of choice is located
pTargetCAWI	tg51511	State of the new university
spEmp	ts23237_g2	Place of workplace (RS federal state)
spEmp	ts23237_g3	Place of workplace (RS region)
spEmp	ts23237_g4	Place of workplace (RS administrative district)
spSchool	tg2232b_g2	Community name of UEQ acquisition (RS federal state)
spSchool	tg2232b_g3	Community name of UEQ acquisition (RS region)
spSchool	tg2232b_g4	Community name of UEQ acquisition (RS administrative district)
spSchool	ts11202_g2	Municipality of school (federal state)
spSchool	ts11202_g3	Municipality of school (RS region)
spSchool	ts11202_g4	Municipality of school (RS administrative district)
spVocPrep	ts13105_g2	Municipality of measure (RS federal state)
spVocPrep	ts13105_g3	Municipality of measure (RS region)
spVocPrep	ts13105_g4	Municipality of measure (RS administrative district)
spVocTrain	ts15207_g2	Municipality of vocational training center (RS federal state)
spVocTrain	ts15207_g3	Municipality of vocational training center (RS region)
spVocTrain	ts15207_g4	Municipality of vocational training center (RS administrative district)
pTargetCATI	t731406	Number of mother's employees
pTargetCATI	t731456	Number of father's employees
spEmp	ts23210	Number of employees
spPartner	ts31229	Number of employees partner
Weights	sLevel	Stratification second level
pTargetCATI	tg04001_g1	Study area Subject 1 WS 2010 (destatis)
pTargetCATI	tg04001_g2	Division of study areas Sample subject 1 WS 2010 (destatis)
pTargetCATI	tg04001_g4	ISCED-97 Subject 1 WS 2010 (3-digit level)
pTargetCATI	tg04001_g5	ISCED-97 Subject 1 WS 2010 (2-digit level)
pTargetCATI	tg04004_g1	Study area Subject 2 WS 2010 (destatis)
pTargetCATI	tg04004_g2	Division of study areas Sample subject 2 WS 2010 (destatis)
pTargetCATI	tg04004_g4	ISCED-97 subject 2 WS 2010 (3-digit level)
pTargetCATI	tg04004_g5	ISCED-97 subject 2 WS 2010 (2-digit level)
pTargetCATI	tg04007_g1	Study area subject 3 WS 2010 (destatis WS 2012)
pTargetCATI	tg04007_g2	Division of study areas Sample subject 2 WS 2010 (destatis)
pTargetCATI	tg04007_g4	ISCED-97 subject 3 WS 2010 (3-digit level)
pTargetCATI	tg04007_g5	ISCED-97 subject 3 WS 2010 (2-digit level)
pTargetCATI	tg12001_g1	Desired subject 1 (destatis)
pTargetCATI	tg12002_g1	Desired subject 2 (destatis)
pTargetCAWI	t242400_g1	Auxiliary variable: Area of studies reference subject questions about learning e
pTargetCAWI	t242400_g3	Auxiliary variable: ISCED-97 reference subject questions about learning environm

(...)

**Table 7:** (continued)

file	variable	label (*only available OnSite)
pTargetCAWI	t242400_g4	Auxiliary variable: ISCED-97 reference subject questions about learning environm
pTargetCAWI	t29173b_g1	Subject desired subject master (destatis)
pTargetCAWI	t29173b_g3	ISCED-97 Desired subject master (3-digit)
pTargetCAWI	t29173b_g4	ISCED-97 Desired subject master (2-digit)
pTargetCAWI	t435030_g1	other religious community
pTargetCAWI	t531011	Amount of tuition fees
pTargetCAWI	tg51311_g1	Area of studies subject 1 (destatis)
pTargetCAWI	tg51311_g3	ISCED-97 subject 1 (3-digit level)
pTargetCAWI	tg51311_g4	ISCED-97 subject 1 (2-digit level)
pTargetCAWI	tg51321_g1	Area of studies subject 2 (destatis)
pTargetCAWI	tg51321_g3	ISCED-97 subject 2 (3-digit level)
pTargetCAWI	tg51321_g4	ISCED-97 subject 2 (2-digit level)
pTargetCAWI	tg51331_g1	Area of studies subject 3 (destatis)
pTargetCAWI	tg51331_g3	ISCED-97 subject 3 (3-digit level)
pTargetCAWI	tg51331_g4	ISCED-97 subject 3 (2-digit level)
spVocTrain	tg24160_g1	Subject subject 1 (destatis)
spVocTrain	tg24160_g3	ISCED-97 subject 1 (3-digit level)
spVocTrain	tg24160_g4	ISCED-97 subject 1 (2-digit level)
spVocTrain	tg24163_g1	Area of studies subject 2 (destatis)
spVocTrain	tg24163_g3	ISCED-97 subject 2 (3-digit level)
spVocTrain	tg24163_g4	ISCED-97 subject 2 (2-digit level)
spVocTrain	tg24166_g1	Area or studies subject 3 (destatis)
spVocTrain	tg24166_g3	ISCED-97 subject 3 (3-digit level)
spVocTrain	tg24166_g4	ISCED-97 subject 3 (2-digit level)
xInstitution	tg91102	University region: BIK-region type
xInstitution	tg91103	University region: BIK-structure type
xInstitution	tg91104	University region: BIK-7 class of municipality size
xInstitution	tg91105	University region: BIK-10 class of municipality size
xInstitution	tg91106	University region: BBSR community type
xInstitution	tg91107	University region: BBSR district type
xInstitution	tg91108	University region: BBSR composite district type
xInstitution	tg91109	University region: BBSR basic region type
xInstitution	tg91110	University region: BBSR differentiated basic region type
xInstitution	tg91111	University region: Population density 2009 in the county
xInstitution	tg91112	University region: Population-employment-density 2009 in the county
xInstitution	tg91113	University region: Population density 2009 in the regional planning area
xInstitution	tg91114	University region: Population-employment-density 2009 in the regional planning a
xInstitution	tg91201	University region: Unemployment rate 2009 in the county
xInstitution	tg91202	University region: Proportion long-term unemployed 2008 in the county
xInstitution	tg91203	University region: Proportion low-skilled employees 2009 in the county
xInstitution	tg91204	University region: Proportion high-skilled employees 2009 in the county

(...)

**Table 7:** (continued)

file	variable	label (*only available OnSite)	
xInstitution	tg91301	University region: Proportion Population beyond 15 y. with university degree 200	*
xInstitution	tg91401	University region: Gross domestic product per inhabitant 2009 in the county	*
xInstitution	tg91402	University region: Monthly household income 2009 in the county	*
xInstitution	tg91403	University region: Community debts per inhabitant 2009 in the county	*
xInstitution	tg91502	HS region: Western Germany/Eastern Germany/Berlin	
xInstitution	tg91601	University region: Proportion employees in FuE 2007 in the county	*
xInstitution	tg91602	University region: Proportion employees in secondary sector 2009 in the county	*
xInstitution	tg91603	University region: Proportion employees in the tertiary sector 2009 in the count	*
xInstitution	tg91604	University region: Service rate 2009 in the county	*
xInstitution	tg91605	University region: Proportion employees enterprise related services 2009 in the	*
xInstitution	tg91606	University region: Proportion employees in creative sectors 2009 in the county	*
xInstitution	tg91607	University region: Average number employees in agriculture/wood/fishing 2009 in	*
xInstitution	tg91608	University region: Average number employees in manufacturing industry or buildin	*
xInstitution	tg91609	University region: Average number employees in building industry 2009 in the cou	*
xInstitution	tg91610	University region: Average number employees in trade/-customer/traffic 2009 in th	*
xInstitution	tg91611	University region: Durchschn. Anz. Erw. Finanz./Vermietung/Untern.-DL 2009 im La	*
xInstitution	tg91612	University region: Average number employees in public/private services 2009 in t	*
xInstitution	tg91613	University region: Number of current businesses with 0-9 employees 2009 in the c	*
xInstitution	tg91614	University region: Number of current businesses with 10-49 employees 2009 in the	*
xInstitution	tg91615	University region: Number of current businesses with 50-249 employees 2009 in th	*
xInstitution	tg91616	University region: Number of current businesses with 250+ employees 2009 in the	*
xInstitution	tg92101	University: Nomination future concept 2006 or 2007	*
xInstitution	tg92102	University: Winner future concept 2006 or 2007	*
xInstitution	tg92103	University: Nomination Cluster of excellence 2006 or 2007	*
xInstitution	tg92104	University: Winner Cluster of excellence 2006 or 2007	*
xInstitution	tg92105	University: Nomination graduate school 2006 or 2007	*
xInstitution	tg92106	University: Winner graduate school 2006 or 2007	*
xInstitution	tg92301	University: Funding body	*

(...)

**Table 7:** (continued)

file	variable	label (*only available OnSite)	
xInstitution	tg92401	University: Type of university	*
xInstitution	tg92501	University: Finalist Excellent teaching 2009	*
xInstitution	tg92502	University: Winner Excellent teaching 2009	*
xInstitution	tg92601	University: Students 2010 total	*
xInstitution	tg92602	University: Beginning students 2010 (1st semester) total	*
xInstitution	tg92701	University: Students 2010: Germans	*
xInstitution	tg92702	University: Students 2010: Educational residents	*
xInstitution	tg92703	University: Students 2010: Foreign students	*
xInstitution	tg92704	University: Students 2010: male	*
xInstitution	tg92705	University: Students 2010: female	*
xInstitution	tg92706	University: Beginning students 2010 (1st semester): Germans	*
xInstitution	tg92707	University: Beginning students 2010 (1st semester): Educational residents	*
xInstitution	tg92708	University: Beginning students 2010 (1st semester): Foreign students	*
xInstitution	tg92709	University: Beginning students 2010 (1st semester): male	*
xInstitution	tg92710	University: Beginning students 2010 (1st semester): female	*
xInstitution	tg92801	University: Students 2010: Subject group sports/language/cultural sciences	*
xInstitution	tg92802	University: Students 2010: Subject group Law	*
xInstitution	tg92803	University: Students 2010: Subject group Business	*
xInstitution	tg92804	University: Students 2010: Subject group Social science	*
xInstitution	tg92805	University: Students 2010: Subject group mathematics/-natural science	*
xInstitution	tg92806	University: Students 2010: Subject group medicine/health science	*
xInstitution	tg92807	University: Students 2010: Subject group veterinary/agricultural/forestry/nutrit	*
xInstitution	tg92808	University: Students 2010: Subject group engineering	*
xInstitution	tg92809	University: Students 2010: Subject group art/art science	*
xInstitution	tg92810	University: Students 2010: Other subjects	*
xInstitution	tg93101	Subject group: Students 2010	*
xInstitution	tg93102	Subject group: Beginning students 2010 (1st semester) 2010	*
xInstitution	tg93201	Subject group: Students 2010: Germans	*
xInstitution	tg93202	Subject group: Students 2010: Educational residents	*
xInstitution	tg93203	Subject group: Students 2010: Foreign students	*
xInstitution	tg93204	Subject group: Students 2010: male	*
xInstitution	tg93205	Subject group: Students 2010: female	*
xInstitution	tg93206	Subject group: Beginning students 2010 (1st semester): Germans	*
xInstitution	tg93207	Subject group: Beginning students 2010 (1st semester): Educational residents	*
xInstitution	tg93208	Subject group: Beginning students 2010 (1st semester): Foreign students	*
xInstitution	tg93209	Subject group: Beginning students 2010 (1st semester): male	*

(...)



**Table 7:** (continued)

file	variable	label (*only available OnSite)	
xInstitution	tg93210	Subject group: Beginning students 2010 (1st semester): female	*
xInstitution	tg93301	Subject group: Regular basic resources 2010	*
xInstitution	tg93302	Subject group: External funds for teaching and research in general 2010	*
xInstitution	tg93401	Subject groups: Number of professors	*
xInstitution	tg93402	Subject group: Number of professors: male	*
xInstitution	tg93403	Subject group: Number of professors: female	*
xInstitution	tg93404	Subject group: full-time equivalent professors	*
xInstitution	tg93405	Subject group: full-time equivalent professors: male	*
xInstitution	tg93406	Subject group: full-time equivalent professors: female	*
xInstitution	tg93407	Subject group: Number of lecturers, assistants, scientific/artistic employees	*
xInstitution	tg93408	Subject group: Number of lecturers, assistants, scientific/artistic employees: m	*
xInstitution	tg93409	Subject group: Number of lecturers, assistants, scientific/artistic employees: f	*
xInstitution	tg93410	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e	*
xInstitution	tg93411	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e	*
xInstitution	tg93412	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e	*
xInstitution	tg93413	Subject group: Number of lecturers, assistants, scientific/artistic employees wi	*
xInstitution	tg93414	Subject group: Number of lecturers, assistants, scientific/artistic employees w	*
xInstitution	tg93415	Subject group: Number of lecturers, assistants, scientific/artistic employees w	*
xInstitution	tg93416	Subject group: Full-time equivalent lecturers, assistants, scientific/artistic e	*
xInstitution	tg93417	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e	*
xInstitution	tg93418	Subject group: full-time equivalent lecturers, assistants, scientific/artistic e	*
xInstitution	tg93419	Subject group: Number of teaching staff for special tasks	*
xInstitution	tg93420	Subject group: Number of teaching staff for special tasks: male	*
xInstitution	tg93421	Subject group: Number of teaching staff for special tasks: female	*
xInstitution	tg93422	Subject group: full-time equivalent teaching staff for special tasks	*
xInstitution	tg93423	Subject group: full-time equivalent teaching staff for special tasks: male	*
xInstitution	tg93424	Subject group: full-time equivalent teaching staff for special tasks: female	*
xInstitution	tg93425	Subject group: Number of part-time lecturers	*
xInstitution	tg93426	Subject group: Number of part-time lecturers: male	*

(...)

Table 7: (continued)

file	variable	label (*only available OnSite)	
xInstitution	tg93427	Subject group: Number of part-time lecturers: female	*
xInstitution	tg93428	Subject group: full-time equivalent part-time lecturers	*
xInstitution	tg93429	Subject group: full-time equivalent part-time lecturers: male	*
xInstitution	tg93430	Subject group: full-time equivalent part-time lecturers: female	*
xInstitution	tg93501	Subject group: external funds per professor	*
xInstitution	tg93601	Subject group: students per professor	*
xInstitution	tg93602	Subject group: Students per lecturers, assistants, scientific/artistic employees	*
pTargetMicrom			*
xInstitution			

## A.2 Recoding of countries/languages/nationalities

The following tables summarize the complete recoding procedure of countries and languages/nationalities. Each category of the aggregated version (bold) is followed by all entries which have been subsumed to it. All entries are sorted according to their numeric code.

**Table 8:** Complete recoding map of all countries

country	
-23	<b>parent not known</b>
-21	<b>Germany and foreign country, not codeable</b>
-20	<b>Foreign country, but not codeable</b> [9005] Kurdish areas, [9991] German-speaking country abroad, [9992] English-speaking country abroad, [9993] Spanish-speaking country abroad
1	<b>Germany</b> [0] Germany
2	<b>Italy</b> [137] Italy
3	<b>Poland</b> [152] Poland
4	<b>Romania</b> [154] Romania
5	<b>Turkey</b> [163] Turkey
6	<b>Former Yugoslavia</b> [120] Yugoslavia, [122] Bosnia and Herzegovina, [130] Croatia, [131] Slovenia, [132] Serbia and Montenegro, [138] Yugoslavia, Federal Republic of, [140] Montenegro, [144] Macedonia, [150] Kosovo, [170] Serbia
7	<b>Former Soviet Union</b> [127] Estonia, [139] Latvia, [142] Lithuania, [146] Moldova, Republic of, [159] Soviet Union, [160] Russian Federation, [166] Ukraine, [169] Belarus, [422] Armenia, [425] Azerbaijan, [430] Georgia, [444] Kazakhstan, [450] Kyrgyzstan, [470] Tajikistan, [471] Turkmenistan, [477] Uzbekistan
8	<b>Central and South America, Caribbean</b> [320] Antigua and Barbuda, [322] Barbados, [323] Argentina, [324] Bahamas, [326] Bolivia, Plurinational State of, [327] Brazil, [328] Guyana, [330] Belize, [332] Chile, [333] Dominica, [334] Costa Rica, [335] Dominican Republic, [336] Ecuador, [337] El Salvador, [340] Grenada, [345] Guatemala, [346] Haiti, [347] Honduras, [349] Colombia, [351] Cuba, [353] Mexico, [354] Nicaragua, [355] Jamaica, [357] Panama, [359] Paraguay, [361] Peru, [364] Suriname, [365] Uruguay, [366] Saint Lucia, [367] Venezuela, Bolivarian Republic of, [369] Saint Vincent and the Grenadines, [370] Saint Kitts and Nevis, [371] Trinidad and Tobago
9	<b>Northern and Western Europe</b> [124] Belgium, [126] Denmark, [128] Finland, [129] France, [135] Ireland, [136] Iceland, [141] Liechtenstein, [143] Luxembourg, [147] Monaco, [148] Netherlands, [149] Norway, [151] Austria, [157] Sweden, [158] Switzerland, [168] United Kingdom, [193] Norwegian dependent territories in Europe, [195] British dependent territories in Europe, [196] Danish dependent territories in Europe, [295] British dependent territories in Africa, [298] French dependent territories in Africa, [392] Dutch dependent territories in America, [395] British dependent territories in America, [396] Danish dependent territories in America, [398] French dependent territories in America, [495] British dependent territories in Asia, [593] Norwegian dependent territories in Australia, Oceania, Antarctica, [595] British dependent territories in Australia, Oceania, Antarctica, [598] French dependent territories in Australia, Oceania, Antarctica

(...)

**Table 8:** (continued)

	country
10	<b>North America</b> [348] Canada, [368] United States, [391] US dependent territories in America, [591] US dependent territories in Australia, Oceania, Antarctica
11	<b>Oceania/Polynesia</b> [523] Australia, [524] Solomon Islands, [526] Fiji, [527] Cook Islands, [530] Kiribati, [531] Nauru, [532] Vanuatu, [533] Niue, [536] New Zealand, [537] Palau, [538] Papua New Guinea, [540] Tuvalu, [541] Tonga, [543] Samoa, [544] Marshall Islands, [545] Micronesia, Federated States of, [590] New Zealand's dependent territories in Australia, Oceania, Antarctica, [594] Australian dependent territories in Australia, Oceania, Antarctica
12	<b>Other Middle East and North Africa</b> [221] Algeria, [248] Libya, [252] Morocco, [285] Tunisia, [287] Egypt, [421] Yemen, [424] Bahrain, [438] Iraq, [439] Iran, Islamic Republic of, [441] Israel, [445] Jordan, [447] Qatar, [448] Kuwait, [451] Lebanon, [456] Oman, [469] United Arab Emirates, [472] Saudi Arabia, [475] Syrian Arab Republic, [499] other Asia
13	<b>Other Africa</b> [223] Angola, [224] Eritrea, [225] Ethiopia, [226] Lesotho, [227] Botswana, [229] Benin, [230] Djibouti, [231] Côte d'Ivoire, [232] Nigeria, [233] Zimbabwe, [236] Gabon, [237] Gambia, [238] Ghana, [239] Mauritania, [242] Cape Verde, [243] Kenya, [244] Comoros, [245] Congo, [246] Congo, the Democratic Republic of the, [247] Liberia, [249] Madagascar, [251] Mali, [253] Mauritius, [254] Mozambique, [255] Niger, [256] Malawi, [257] Zambia, [258] Burkina Faso, [259] Guinea-Bissau, [261] Guinea, [262] Cameroon, [263] South Africa, [265] Rwanda, [267] Namibia, [268] Sao Tome and Principe, [269] Senegal, [271] Seychelles, [272] Sierra Leone, [273] Somalia, [274] Equatorial Guinea, [276] Sudan, [281] Swaziland, [282] Tanzania, United Republic of, [283] Togo, [284] Chad, [286] Uganda, [289] Central African Republic, [291] Burundi
14	<b>Other Asia</b> [423] Afghanistan, [426] Bhutan, [427] Myanmar, [429] Brunei Darussalam, [431] Sri Lanka, [432] Vietnam, [434] Korea, Democratic People's Republic of, [436] India, [437] Indonesia, [442] Japan, [446] Cambodia, [449] Lao People's Democratic Republic of, [454] Maldives, [457] Mongolia, [458] Nepal, [460] Bangladesh, [461] Pakistan, [462] Philippines, [465] Taiwan, Province of China, [467] Korea, Republic of, [474] Singapore, [476] Thailand, [479] China, [482] Malaysia, [483] Timor-Leste, Democratic Republic of
15	<b>Other Central and Eastern Europe</b> [125] Bulgaria, [155] Slovakia, [162] Czechoslovakia, [164] Czech Republic, [165] Hungary
16	<b>Other Southern Europe</b> [121] Albania, [123] Andorra, [134] Greece, [145] Malta, [153] Portugal, [156] San Marino, [161] Spain, [167] Holy See (Vatican City State), [181] Cyprus, [297] Spanish dependent territories in Africa
17	<b>Other</b> [996] unknown foreign countries

**Table 9:** Complete recoding map of all languages/nationalities

language/nationality	
1	<b>Arabic</b> [1011801] Arabic
2	<b>Bosnian</b> [1021519] Bosnian
3	<b>Bulgarian</b> [1022112] Bulgarian
4	<b>German</b> [1070518] German, [1140419] Low German; Low Saxon; German, Low; Saxon, Low
5	<b>English</b> [1051407] English
6	<b>French</b> [1061805] French
7	<b>Greek</b> [1071803] Greek, Ancient (to 1453), [1071805] Greek, Modern (1453-)
8	<b>Italian</b> [1092001] Italian
9	<b>Croatian</b> [1081822] Croatian
10	<b>Kurdish</b> [1112118] Kurdish
11	<b>Polish</b> [1161512] Polish
12	<b>Portuguese</b> [1161518] Portuguese
13	<b>Russian</b> [1182119] Russian
14	<b>Romanian</b> [1182113] Romanian; Moldavian; Moldovan
15	<b>Serbian</b> [1191816] Serbian
16	<b>Spanish</b> [1191601] Spanish; Castilian
17	<b>Turkish</b> [1202118] Turkish
18	<b>Vietnamese</b> [1220905] Vietnamese
19	<b>Asian languages</b> [1010305] Achinese, [1011111] Akkadian, [1011803] Official Aramaic (700-300 BCE); Imperial Aramaic (700-300 BCE), [1011913] Assamese, [1012205] Avestan, [1012301] Awadhi, [1020112] Baluchi, [1020114] Balinese, [1020514] Bengali, [1020815] Bhojpuri, [1020908] Bihari languages, [1020911] Bikol, [1021801] Braj, [1022011] Batak languages, [1022101] Buriat, [1022107] Buginese, [1022118] Burmese

(...)

**Table 9:** (continued)

language/nationality	
	, [1030502] Cebuano, [1030807] Chagatai, [1030809] Chinese, [1030811] Chuukese, [1031303] Chamic languages, [1040125] Land Dayak languages, [1040922] Divehi; Dhivehi; Maldivian, [1041509] Dogri, [1042615] Dzongkha, [1051224] Elamite, [1060912] Filipino; Pilipino, [1070125] Gayo, [1071514] Gondi, [1072110] Gujarati, [1080502] Hebrew, [1080912] Hiligaynon, [1080913] Himachali languages; Western Pahari languages, [1080914] Hindi, [1080920] Hittite, [1081314] Hmong; Mong, [1090201] Iban, [1091215] Iloko, [1091404] Indonesian, [1100122] Javanese, [1101614] Japanese, [1101618] Judeo-Persian, [1101802] Judeo-Arabic, [1110101] Kara-Kalpak, [1110103] Kachin; Jingpho, [1110114] Kannada, [1110118] Karen languages, [1110119] Kashmiri, [1110123] Kawi, [1110126] Kazakh, [1110801] Khasi, [1110813] Central Khmer, [1110815] Khotanese; Sakan, [1110918] Kirghiz; Kyrgyz, [1111511] Konkani, [1111518] Korean, [1111821] Kurukh, [1112113] Kumyk, [1120108] Lahnda, [1120115] Lao, [1120526] Lezghian, [1122119] Lushai, [1130104] Madurese, [1130107] Magahi, [1130109] Maithili, [1130111] Makasar, [1130112] Malayalam, [1130118] Marathi, [1130125] Malay, [1130418] Mandar, [1130914] Minangkabau, [1131403] Manchu, [1131409] Manipuri, [1131415] Manobo languages, [1131514] Mongolian, [1132114] Munda languages, [1132318] Marwari, [1140516] Nepali, [1140523] Nepal Bhasa; Newari, [1140901] Nias, [1151809] Oriya, [1151919] Ossetian; Ossetic, [1152001] Turkish, Ottoman (1500-1928), [1160107] Pangasinan, [1160113] Pampanga; Kapampangan, [1160114] Panjabi; Punjabi, [1160515] Persian, Old (ca.600-400 B.C.), [1160518] Persian, [1160814] Phoenician, [1161209] Pali, [1161514] Pohnpeian, [1161801] Prakrit languages, [1162119] Pushto; Pashto, [1180110] Rajasthani, [1190108] Yakut, [1190113] Samaritan Aramaic, [1190114] Sanskrit, [1190119] Sasak, [1190120] Santali, [1190512] Selkup, [1190814] Shan, [1190914] Sinhala; Sinhalese, [1191404] Sindhi, [1191507] Sogdian, [1192114] Sundanese, [1192124] Sumerian, [1192503] Classical Syriac, [1200113] Tamil, [1200120] Tatar, [1200512] Telugu, [1200520] Tetum, [1200711] Tajik, [1200712] Tagalog, [1200801] Thai, [1200902] Tibetan, [1202111] Turkmen, [1202522] Tuvian, [1210701] Ugaritic, [1210907] Uighur; Uyghur, [1211804] Urdu, [1212602] Uzbek, [1230118] Waray, [1250116] Yapese, [1260801] Zhuang; Chuang
20	<b>African languages</b> [1010118] Afar, [1010308] Acoli, [1010401] Adangme, [1010608] Afrihili, [1010618] Afrikaans, [1011101] Akan, [1011308] Amharic, [1020104] Banda languages, [1020109] Bamileke languages, [1020113] Bambara, [1020119] Basa, [1020510] Beja; Bedawiyet, [1020513] Bemba, [1020518] Berber languages, [1020914] Bini; Edo, [1021420] Bantu (Other), [1031516] Coptic, [1040914] Dinka, [1042101] Duala, [1042521] Dyula, [1050609] Efik, [1050725] Egyptian (Ancient), [1051101] Ekajuk, [1052305] Ewe, [1052315] Ewondo, [1060114] Fang, [1060120] Fanti, [1061514] Fon, [1062112] Fulah, [1070101] Ga, [1070201] Gbaya, [1070526] Geez, [1071802] Grebo, [1080121] Hausa, [1080518] Herero, [1090215] Igbo, [1091015] Ijo languages, [1091405] Indo-European languages, [1110102] Kabyle, [1110113] Kamba, [1110121] Kanuri, [1110911] Kikuyu; Gikuyu, [1110914] Kinyarwanda, [1111302] Kimbundu, [1111514] Kongo, [1111605] Kpelle, [1111815] Kru languages, [1112101] Kuanyama; Kwanyama, [1120113] Lamba, [1120914] Lingala, [1121512] Mongo, [1121526] Lozi, [1122101] Luba-Lulua, [1122102] Luba-Katanga, [1122107] Ganda, [1122114] Lunda, [1122115] Luo (Kenya and Tanzania), [1130114] Mandingo, [1130119] Masai, [1130514] Mende, [1131207] Malagasy, [1131519] Mossi, [1140212] Ndebele, South; South Ndebele, [1140405] Ndebele, North; North Ndebele, [1140415] Ndonga, [1141915] Pedi; Sepedi; Northern Sotho, [1142501] Chichewa; Chewa; Nyanja, [1142513] Nyamwezi, [1142514] Nyankole, [1142515] Nyoro, [1142609] Nzima, [1151813] Oromo, [1182114] Rundi, [1190104] Sandawe, [1190107] Sango, [1190904] Sidamo, [1191201] Slavic languages, [1191401] Shona, [1191411] Soninke, [1191513] Somali, [1191514] Songhai languages, [1191520] Sotho, Southern, [1191818] Serer, [1191923] Swati, [1192111] Sukuma, [1192119] Susu, [1192301] Swahili, [1200513] Timne, [1200907] Tigre, [1200918] Tigrinya, [1200922] Tiv, [1201308] Tamashek, [1201507] Tonga (Nyasa), [1201914] Tswana, [1201915] Tsonga, [1202113] Tumbuka, [1202309] Twi, [1211302] Umbundu, [1220109] Vai, [1220514] Venda, [1230112] Walamo, [1231512] Wolof, [1240815] Xhosa, [1250115] Yao, [1251518] Yoruba, [1260514] Zenaga, [1261404] Zande languages, [1262112] Zulu

(...)

**Table 9:** (continued)

	language/nationality
21	<p><b>Other languages</b></p> <p>[1010211] Abkhazian, [1011202] Albanian, [1011205] Aleut, [1011207] Algonquian languages, [1011407] English, Old (ca.450-1100), [1011601] Apache languages, [1011807] Aragonese, [1011813] Armenian, [1011814] Mapudungun; Mapuche, [1011816] Arapaho, [1011823] Arawak, [1012008] Athapascan languages, [1012119] Australian languages, [1012201] Avaric, [1012513] Aymara, [1012605] Azerbaijani, [1020111] Bashkir, [1020117] Basque, [1020512] Belarusian, [1020919] Bislama, [1021201] Siksika, [1021805] Breton, [1030104] Caddo, [1030118] Galibi Carib, [1030120] Catalan; Valencian, [1030121] Caucasian languages, [1030801] Chamorro, [1030802] Chibcha, [1030805] Chechen, [1030813] Mari, [1030814] Chinook jargon, [1030815] Choctaw, [1030816] Chipewyan; Dene Suline, [1030818] Cherokee, [1030821] Church Slavonic; Old Slavonic; Church Slavonic; Old Bulgarian; Old Church Slavonic, [1030822] Chuvash, [1030825] Cheyenne, [1031518] Cornish, [1031519] Corsican, [1031605] Creoles and pidgins, English based, [1031805] Cree, [1031816] Creoles and pidgins, [1032605] Czech, [1040111] Dakota, [1040114] Danish, [1040512] Delaware, [1040718] Dogrib, [1042113] Dutch, Middle (ca.1050-1350), [1042120] Dutch; Flemish, [1051413] English, Middle (1100-1500), [1051615] Esperanto, [1051920] Estonian, [1060115] Faroese, [1060910] Fijian, [1060914] Finnish, [1061813] French, Middle (ca.1400-1600), [1061815] French, Old (842-ca.1400), [1061825] Western Frisian, [1062118] Friulian, [1070515] Georgian, [1070912] Gilbertese, [1071201] Gaelic; Scottish Gaelic, [1071205] Irish, [1071207] Galician, [1071222] Manx, [1071308] German, Middle High (ca.1050-1500), [1071508] German, Old High (ca.750-1050), [1071518] Gorontalo, [1071520] Gothic, [1071814] Guarani, [1072309] Gwich'in, [1080109] Haida, [1080120] Haitian; Haitian Creole, [1080123] Hawaiian, [1081315] Hiri Motu, [1082114] Hungarian, [1082116] Hupa, [1090305] Icelandic, [1090415] Ido, [1091121] Inuktitut, [1091205] Interlingue; Occidental, [1091401] Interlingua (International Auxiliary Language Association), [1091611] Inupiaq, [1091815] Iroquoian languages, [1110112] Kalaallisut; Greenlandic, [1111513] Komi, [1111519] Kosraean, [1112120] Kutenai, [1120104] Ladino, [1120120] Latin, [1120122] Latvian, [1120913] Limburgan; Limburger; Limburgish, [1120920] Lithuanian, [1122026] Luxembourgish; Letzeburgesch, [1122109] Luiseno, [1130103] Macedonian, [1130108] Marshallese, [1130115] Maori, [1130701] Irish, Middle (900-1200), [1130903] Mi'kmaq; Micmac, [1131220] Maltese, [1131508] Mohawk, [1132119] Creek, [1132514] Mayan languages, [1140108] Nahuatl languages, [1140121] Nauru, [1140122] Navajo; Navaho, [1140903] Niger-Kordofanian languages, [1140921] Niuean, [1141415] Norwegian Nynorsk; Nynorsk, Norwegian, [1141502] Bokmål, Norwegian; Norwegian Bokmål, [1141514] Norse, Old, [1141518] Norwegian, [1150309] Occitan (post 1500); Provençal, [1151009] Ojibwa, [1151901] Osage, [1152015] Otomian languages, [1160112] Pahlavi, [1160116] Papiamentu, [1160121] Palauan, [1161815] Provençal, Old (to 1500), [1172105] Quechua, [1180116] Rapanui, [1180118] Rarotongan; Cook Islands Maori, [1181508] Romansh, [1181513] Romany, [1190112] Salishan languages, [1190315] Scots, [1190701] Irish, Old (to 900), [1190915] Siouan languages, [1191215] Slovak, [1191222] Slovenian, [1191305] Northern Sami, [1191309] Sami languages, [1191315] Samoan, [1191804] Sardinian, [1192305] Swedish, [1200108] Tahitian, [1200518] Tereno, [1201112] Tokelau, [1201209] Tlingit, [1201514] Tonga (Tonga Islands), [1201609] Tok Pisin, [1201909] Tsimshian, [1202120] Altaic languages, [1202212] Tuvalu, [1211118] Ukrainian, [1221512] Volapük, [1221520] Votic, [1230111] Wakashan languages, [1230119] Washo, [1230512] Welsh, [1230514] Sorbian languages, [1231214] Walloon, [1250904] Yiddish, [1251611] Yupik languages, [1260116] Zapotec, [1262114] Zuni, [1262601] Zaza; Dimili; Dimli; Kirdki; Kirmanjki; Zazaki</p>

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