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FDZ-Datenreport

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Codebook and Documentation of the Panel Study 'Labour Market and Social Security' (PASS)

Datenreport Wave 8

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FDZ-Datenreporte (FDZ data reports) describe FDZ data in detail. As a result, this series of reports has a dual function: on the one hand, users of the reports can ascertain whether the data offered is suitable for their research task, on the other hand, the data can be used to prepare evaluations. This data report documents the data preparation of the eighth PASS wave and is based upon the seventh wave's data report: Marco Berg, Ralph Cramer, Christian Dickmann, Reiner Gilberg, Birgit Jesske, Martin Kleudgen, (all infas Institut für angewandte Sozialwissenschaft GmbH), Arne Bethmann, Benjamin Fuchs, Mark Trappmann, Martina Huber (all Institut für Arbeitsmarkt- und Berufsforschung (IAB)): Codebuch und Dokumentation des "Panel Arbeitsmarkt und soziale Sicherung" (PASS) volume I: Datenreport Welle 7, FDZ Datenreport, 02/2014 (de), Nuremberg.

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Data availability

The dataset described in this document is available for use by professional researchers. For further information, please refer to http://fdz.iab.de/.

1 Introduction

1.1 The objectives and research questions of the panel study 'Labour Market and Social Security'

The panel study 'Labour Market and Social Security' (PASS), established by the Institute for Employment Research (IAB), creates a new empirical dataset for labour market, welfare state and poverty research and policy counseling in Germany.

This study is conducted as part of IAB research on German Social Code Book II (SGB II)¹. The IAB must fulfill a statutory mandate to study the effects of the benefits and services provided under SGB II, which are aimed at labour-market integration and subsistence benefits. However, due to its complex sampling design, this study also enables researchers to examine additional issues. The following five core questions, which are detailed in Achatz, Hirseland and Promberger (2007), influenced the development of this study:

- 1. What are the options for regaining financial independence from Unemployment Benefit (UB) II (Arbeitslosengeld II)?
- 2. How does a household's social situation change when it receives benefits?
- 3. How do individuals who receive benefits cope with their situations? Do recipient attitudes toward the actions required to improve their situations change over time?
- 4. How does contact between benefit recipients and institutions that provide basic social security take place? What actual institutional procedures are applied in practice?
- 5. What employment history patterns or household dynamics lead to receiving Unemployment Benefit II?

This data report provides an overview of the eighth survey wave, for which 13,460 individuals in 8,998 households² were interviewed between February 2014 and September 2014. This sample included 11,993 individuals and 8,031 households that had previously been interviewed for PASS.

This data report³ of wave 8 documents the wave-specific aspects of the study. Chapter 1.2 contains a short description of the instruments and the survey program. Following a

These figures include evaluable interviews only. Additionally, repeatedly interviewed households were considered even if only a household interview but no personal or senior citizen interview could be conducted.

Social Code Book II - basic security for job-seekers (Sozialgesetzbuch (SGB) Zweites Buch (II) - Grundsicherung für Arbeitsuchende).

These reports were divided into the following two components for the first time in the wave 3 documentation: a wave-specific data report (including a codebook) and a cross-wave User Guide. The PASS project team at the IAB is responsible for creating the cross-wave User Guide. As of wave 3, infas has created the documentation for the wave-specific data report, which is based on the wave 2 data report. The cross-wave User Guide documents the entire

short overview of the innovations and characteristics of wave 8 (Chapter 1.3), the data report provides key figures on the wave's sample and response rates (Chapter 2). The data preparation process is described (Chapter 5), and an overview of the variables generated is presented (Chapter 4). Additionally, the weighting procedure is presented (Chapter 6). Separate tables list the frequencies of all of the variables included in the scientific use file that were recorded in wave 8 by their respective datasets (Volumes II through V).

1.2 Instruments and interview program

The information in PASS is collected using separate questionnaires for the household and individual levels. First, a household interview is conducted. This interview gathers information about the entire household. The target person for this household interview⁴ was selected during the contact phase preceding the interviews. Personal interviews of the household members follow the household interview. The aim is to conduct a personal interview of each individual living in the household who is 15 years of age or older. Household members who are 65 or older receive a shortened version of the questionnaire (the senior citizens' questionnaire), which excludes questions that are irrelevant to that age group.

The survey instruments and interview program for wave 8 are based on those used in wave 7. However, individual questions and modules have been revised or newly developed (see Chapter 1.3 for an overview).

The PASS survey instruments are designed to allow not only repeat interviews of individuals and households but also first-time interviews⁵.

Since wave 3, dependent interviewing has been used for certain questions to update information that the respondent had previously provided to avoid seam effects⁶ in the repeat interviews and to increase data quality. Information about constant characteristics was generally not gathered again. Additionally, since wave 4, an integrated questionnaire for

study, details the objectives and design of PASS and presents the contents and instruments of the survey. Moreover, it describes the structure of the scientific use file and the concept of the variable types and their names.

- The target person for the household interview should know as much as possible about general household issues, and target selection was based on the rules documented in the methods reports (Jesske & Quandt, 2011; Jesske & Schulz 2012; Jesske & Schulz 2013).
- First-time interviewed households include the following groups: (1) households from the refreshment and replenishment samples of the current wave; and (2) households that split off from households interviewed during previous waves (split-off households). (For further explanation, please see the wave 4 methods report (Jesske & Quandt, 2011).)
- In a panel data, the number of changes observed at the interface (seam) between interviews conducted in sequential panel waves is often considerably higher than the number of changes observed within an interview (see Jäckle 2008).

repeatedly interviewed households (HHalt) and first-time interviewed households (HHneu) has been used⁷.

The cross-wave PASS User Guide elaborates the individual instruments and interview program. The following section reviews the characteristics and innovations of wave 8.

1.3 Characteristics and innovations of wave 8

At this point we outline the characteristics of the eighth wave for users who are already familiar with the data from previous PASS waves.

The characteristics and innovations of wave 8 affect the questions asked in the household and personal questionnaires (e.g., change of reference periods, modification of individual questions and new question modules)⁸, sample and data preparation.

1.3.1 Personal questionnaire

The personal questionnaire updates the employment history information gathered since wave 2⁹. Wave 8 maintains the chronological retrospective surveying introduced in wave 4 (see section 1.3.1 in Berg et al., FDZ Datenreport 08/2011).

For the personal questionnaire in wave 8, new modules were developed, whereas the single modules of the previous waves were used again, and extensions of the existing modules were made. These changes and extensions relate to the following.

In the "education" module, five questions that involved education were added for the group of pupils. These questions had been previously used in wave 3. These questions addressed the highest aspired school degree, the occupational degree and grade of a class.

The "attitudes (role models)" module was introduced and consisted of a matrix question with items of agreement that examined the relation between family and occupation (PEO0400a-d).

The "agency contacts" module was that used in wave 6 (PTKBL01-PTK1600). Because of the legal situation, no differentiated collimation of the name of the agency occurred, but the term job-centre was used. The respondents were informed in the introduction that the

In this survey, split-off households are treated like new households.

Not all of the minor changes to the questionnaire (adding, modifying or deleting individual questions) are listed.

This information is gathered using the so-called dependent interviewing method. In dependent interviewing, information that was provided during previous interview waves is included in the interview text of the current interview to determine whether the information must be updated.

agency will always be discussed as a job-centre. Following the introduction, the questions in wave 6 (PTK0100-PX22500) were combined, and if the respondent could not identify the name of the agency, it was removed.

For the "search for work" module, complex extensions were made to address subjective opportunities in the labour market for job searchers and non-searchers. In particular, two new questions were added regarding the possibilities in the labour market (PAC0100 and PAC0200), an estimation of success considering the job research (PAC0300-PAC0600), an estimation of the relative opportunities in the labour market (PAC0700) compared with other job candidates in the region, the frequency of the search media (PAS0950) mentioned in PAS0900, the search effort during the last four weeks (PAC0900-PAC1000), the estimation of the respondent's own skills (PAC1100), the motivation for the job search (PAC1200-PAC1400), and how refusals were handled (PAC1500).

The "attitude living standard" module (PLS0100-PLS2600) was that used in wave 1 and was adjusted for wave 8. The statement regarding the necessity of the surveyed deprivation aspects were used to the weight the deprivation index. In wave 8, an actualization of these weights was made. To minimize the survey time, only six items of a table were presented to the respondents. The items of this module complied with a special rotation rule. The first item, B, was the same for all respondents, so all the subsequent decisions had the same reference point. In this way, the item serves an anchor function. Afterwards, one item on the five topics (flat, food and clothing + financial possibilities I, cultural participation + goods I, goods II and financial possibilities II) was randomly selected. The order of each topic followed randomly again. For the weighted deprivation index (depindg2), the weighting on the basis of the survey of the necessity in wave 1 was used until wave 7. For wave 8 and all subsequent waves, the weighting will be ascertained by using the necessity survey from wave 8.

The "financial attitude" module is a new module, applied for the first time. Matrix question PEF0100* deals with the handling of money.

In addition to the extensions and additions, questions ET400 to ET4900 of the "quality of employment" module were renamed PQB0100 to PQB1000 in wave 8 because cross-sectional information was surveyed. In the "social origin" module, a special code of 996 for the answer category of "more than 99 employees" for questions PSH0670 and PSH0370 was included. In the "religion" module, a filter change was made. In wave 8, the module was addressed to all respondents, i.e., the panel and first-time respondents.

Furthermore, it was ensured that the terms "military and community service" were replaced by "federal voluntary service and voluntary military service", respectively. This change relates to the "employment biography" module. The wording for category 5 of the variables BIO0100z and BIO0100 is "in federal voluntary service, voluntary military service or something similar". The filter was maintained. In addition, category 7 of the ET2300z and ET2300 variables was adjusted.

The following four modules were deleted from the personal questionnaire:

- Duty of search (PSUBLK01-PSU0200*), because the question was reintegrated in the "agency contacts" module
- Stigma awareness (PSV0100-PSV0200)
- "Memory I" (PME0100) and "Memory II" (PME0200) modules to test the memory power of the respondents
- Estimation of annual income in 2012 (PBIOBLK06-PBIOBLK07)

1.3.2 Household questionnaire

In the household questionnaire of wave 8, only minor changes were made, related to the income II, child care and education and participation package modules. A new module concerning the use of charitable food banks was added.

In the household questionnaire the new wordings "federal voluntary service" and "voluntary military service" were used in the questions regarding household size (HA0100).

In the "income II" module, two questions about concerning the new child care subsidy had beenwere added (HEK1650 and HEK1660).

The "use of charitable food banks" module was newly developed containing questions HTA0100 and HTA0200, which involve the use of charitable food banks during the last four weeks and the frequency of the use. The module was presented to all households that actually received UB II, social security, housing benefits or federal child support.

In the "education and participation package" module, the entrance filter for the survey of foreign-language information material (HBT0210) was extended. HBT0210 was asked of all respondents from the foreign-language input sample, who named at least one of the listed information sources regarding the education package in HBT0200. In wave 7 the entrance filter still referred to the respondents from the foreign-language sample who received a motivational letter. The module will be updated in wave 8 by using dependent interviewing.

1.3.3 Sample and data preparation

U

In wave 8, as in previous waves, a refreshment sample was drawn from the Federal Employment Agency (BA) subsample.¹⁰ The aims are to guarantee the representativeness of the BA sample in the cross-section and to observe enough new transitions into benefits, that is, into UB II, over time. For the refreshment sample, benefit units were drawn receiv-

Wave 1 of PASS includes two subsamples: (1) a sample of households receiving UB II, which was drawn from the Federal Employment Agency (BA) process data; and (2) a general population sample, stratified by status, drawn from a database provided by the commercial provider MICROM.

ing UB II in July 2013 but not on the sampling date of the first, second, third, fourth, fifth, sixth and seventh waves (see Chapter 2.1 and, on the concept of the refreshment sample, Trappmann et al., 2009, page 11 ff.). All of the households that were surveyed for the first time during wave 8 can be identified via the sample indicator (*sample*).

The data preparation was performed in close cooperation with the IAB. Basic procedures, such as updating datasets and correcting problems in the household structures, were discussed during the preparation process. Final decisions were made by the IAB.

The integration of the spell datasets into the module "**employment**" and the necessary preparatory steps were discussed and determined in agreement with the IAB. That procedure is documented in Chapter 5.7.

2 Key figures

This chapter provides a brief overview of important figures in the study, such as sample sizes (gross and net) and response rates. The panel sample is represented over the course of the previous waves. Figures are reported not only for both the original and replenishment samples but also for the complete study.

- Subsample 1 (BA sample) refers to the sample of benefits recipients from the process data of the Federal Employment Agency.
- Subsample 2 (MICROM sample) refers to the stratified population sample.
- Refreshment sample 1 (BA sample) is the sample drawn from the SGB II inflow between waves 1 and 2.
- Refreshment sample 2 (BA sample) is the sample drawn from the SGB II inflow between waves 2 and 3.
- Refreshment sample 3 (BA sample) is the sample drawn from the SGB II inflow between waves 3 and 4.
- Refreshment sample 4 (BA sample) is the sample drawn from the SGB II inflow between waves 4 and 5.
- Panel replenishment/supplement 1 (municipal register sample) is the sample drawn from the registration office inflows in ten new postcode regions during wave 5.
- Panel replenishment/supplement 2 (BA sample) is the sample drawn from the SGB II inflows in 100 new postcode regions during wave 5.
- Refreshment sample 5 (BA sample) is the sample drawn from the SGB II inflow between waves 5 and 6.
- Refreshment sample 6 (BA sample) is the sample drawn from the SGB II inflow between waves 6 and 7.
- Refreshment sample 7 (BA sample) is the sample drawn from the SGB II inflow between waves 7 and 8.

2.1 Sample size

Each sample in a panel begins with the interviewed households from the first survey wave. In PASS, the gross panel sample contains the interviewed households from wave 1 and the HHneu from the refreshment samples in waves 2 to 7. Only those households being interviewed for the first time that are willing to participate in the panel and are available for repeat interviews are considered. Agreement to participate in the panel is only recorded during the first interview. Confirmation of these households' willingness in subsequent waves is not required. In addition to confirming willingness, access to the panel is induced during the first interview by general willingness to participate, that is, by providing an interview. Measures to ensure the best possible selection-free access to the panel as part of PASS are described in detail in the methods and field reports of waves 1 to 8. 12

Wave 1 of PASS included 12,794 household interviews, of which 12,000 households agreed to participate in the panel. These wave-1 households constitute the sample for the beginning of the first tracking survey.

The panel concept in PASS assumes that new or split-off households emerge as individuals move out of panel households, which are considered separate households as soon as a household interview is conducted.

This design results in a higher number of households compared to the original sample. Details about the procedures for the PASS panel concept can be found under "split-off households." In addition to the expansion of the panel, loss of households can occur due to panel mortality. Households in which all respondents passed away or moved abroad are removed from the gross panel in subsequent waves. Moreover, panel losses may occur if no household interview could be conducted for a household for two consecutive waves. This situation arose for the first time at the end of wave 3 and affected the gross panel in waves 4¹³ to 8. The gross sample used for wave 8 included 10,431 panel households. That includes additionally HHneu from the refreshment sample (n=3,134) and newly formed split-off households in wave 7 (n=288) and wave 8 (n=400).

The case numbers for the gross sample size of the respective survey waves and subsamples are reported in the following table. In wave 8, at least one interview could be conducted for 8,203 households in the panel sample. In addition, 795 first-time household interviews were conducted from the refreshment sample, of which 755 were willing to par-

Willingness to participate in the panel is confirmed by the household reference person and is thus valid for all household members. Households that were willing to participate in the panel have allowed their addresses to be stored for the purposes of this study's repeat interviews.

See Hartmann et al. (2008); Büngeler et al. (2009); Büngeler et al. (2010); Jesske & Quandt (2011); Jesske & Schulz (2012).

The survey institute change also influenced the panel gross in wave 4 because transmitting participant addresses from the IAB to infas required the target person's permission. For details on this procedure and its results, please refer to the methods report for wave 4 (Jesske & Quandt, 2011).

ticipate in the panel. In addition, the households interviewed for the first time in wave 8 include 172 split-off households that arose because of the subsamples in waves 1 - 7.

Table 1: Panel sample at the household level by wave and subsample 14

					Sa	ımple							
	n	ВА	Microm	BA- refreshment 1	BA- refreshment 2	BA- refreshment 3	BA- refreshment 4	EWO supplement	BA supplement	BA- refreshment 5	BA- refreshment 6	BA- refreshment 7	Total
_	HH-interview realised	6.804	5.990										12.794
Wave 1	of this: HH w illing to participate in panel	6.452	5.548										12.000
	Panel-HH gross	6.520	5.611										12.13
Wave 2	HH-interview realised of this:	3.491	3.897	1.041									8.429
š	HH w illing to participate in panel	3.360	3.766	1.003									8.129
	Panel-HH gross	5.851	5.150	1.010									12.01
Wave 3	HH-interview realised	3.754	3.901	694	1.186								9.535
Š	<u>of this:</u> HH w illing to participate in panel	3.576	3.777	669	1.145								9.167
	Panel-HH gross	3.926	3.628	863	1.069								9.486
Wave 4*	HH-interview realised	2.815	2.977	563	745	748							7.848
×	of this: HH willing to participate in panelt	2.754	2.933	554	727	723							7.691
	Panel-HH gross	3.392	3.334	676	960	727							9.089
Wave 5**	HH-interview realised of this:	2.382	2.680	464	608	517	753	1.510	1.321				10.23
Š	HH w illing to participate in panel	2.347	2.633	456	598	512	702	1.415	1.257				9.920
	Panel-HH gross	2.902	3.021	576	768	687	653	1.324	1.185	961			12.07
Wave 6	HH-interview realised of this:	2.109	2.539	398	532	466	497	1.103	908	961			9.513
Š	HH w illing to participate in panel	2.078	2.503	389	519	460	492	1.087	890	919			9.337
	Panel-HH gross	2.540	2.797	484	658	553	626	1.270	1.137	930	949		11.94
Wave 7	HH-interview realised	1.984	2.409	359	505	414	413	996	798	682	949		9.509
Š	<u>of this:</u> HH w illing to participate in panel	1.954	2.383	357	502	412	407	969	783	671	914		9.352
	Panel-HH gross	2.231	2.608	429	572	466	494	1.085	924	875	919		10.603
Wave 8	HH-interview realised	1.738	2.194	324	431	359	348	883	678	571	677	795	8.998
š	of this: HH w illing to participate in panel	1.718	2.158	314	425	355	344	863	670	562	659	755	8.823

The scientific use file's register files always comprise the net sample of realised interviews of the respective waves. In the case of split-off households it is possible that there is a subsequent expansion of the panel household gross of the previous wave if the split-off household was identified in the previous wave but could not be realised yet.

The 8,998 household interviews conducted in wave 8 correspond to 13,460 personal interviews. The following table lists the distribution of respondents across subsamples and survey waves.

Table 2: Panel sample size at the individual level by wave and subsample

	Personal interview	Wave 1	Wave 2	Wave 3	Wave 4*	Wave 5**	Wave 6	Wave 7	Wave 8
	realised								
		abs.	abs.	abs.	abs.	abs.	abs.	abs.	abs.
	ВА	9,386	4,753	4,913	3,958	3,394	3,048	2,862	2,447
	Microm	9,568	6,392	6,207	5,016	4,511	4,245	4,001	3,591
	BA-Refreshment 1		1,342	898	786	653	558	505	450
	BA-Refreshment 2			1,421	983	822	719	688	593
Sample	BA-Refreshment 3				1,025	760	679	590	512
S S	BA-Refreshment 4					1,019	716	599	502
	EWO supplement					2,589	1,990	1,784	1,533
	BA supplement					1,859	1,350	1,182	999
	BA-Refreshment 5						1,314	975	821
	BA-Refreshment 6						1,314	1,264	932
	BA-Refreshment 7								1,080
	Total	18,954	12,487	13,439	11,768	15,607	14,619	14,449	13,460

Source: P_Register; Scientific Use File IAB

For people without sufficient knowledge of German, interviews were offered in Turkish and Russian. Table 3 indicates how many households or persons were interviewed in these additional survey languages.

^{*} Reduction of the gross sample due to objection procedures

^{**} Expansion of the gross sample by supplementation

Table 3: Panel sample size of foreign-language interviews by wave

		Russian	Turkish
		abs.	abs.
Wave 1	Households	275	163
wave i	Individuals	abs.	305
Wave 2	Households	156	39
Wave 2	Individuals	abs. 275 432 156 219 210 330 179 285 159 259 146 242 145 131	31
Wave 3	Households	210	69
wave 3	Individuals	330	109
Wave 4	Households	179	42
wave 4	Individuals	285	78
Wave 5	Households	159	36
vvave 5	Individuals	abs. 275 432 156 219 210 330 179 285 159 259 146 242 145 245 131	58
	Households	abs. 275 432 156 219 210 330 179 285 159 259 146 242 145 131	25
Wave 6	Individuals	242	40
Wave 7	Households	145	29
	Individuals	245	43
Wave 8	Households	131	22
	Individuals	224	28

Source: PENDDAT; Scientific Use File IAB

For the overall data pool of the realised panel sample, the following figure outlines households and individuals over the eight survey waves.

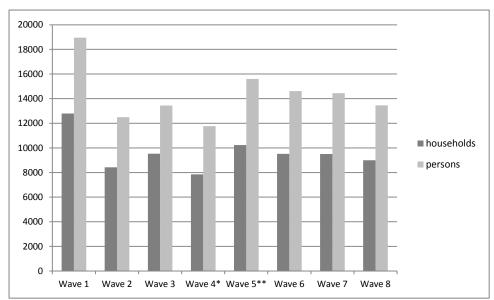


Figure 1: Realised panel sample for households and individuals by survey wave

2.2 Response rates

The response rate is calculated according to AAPOR standards (AAPOR, 2006). The response rate (RR1) is reported, which includes all cases of unknown eligibility in the denominator and therefore provides the minimum value of all response rates. The response rate at the household level is calculated from the share of usable household interviews as a proportion of the total usable household interviews and non-neutral non-responses. Only households in which all members have passed away or moved abroad permanently are considered cases of neutral non-response. Households are considered usable if at least one complete household interview is available. New households are considered usable if both the household interview and at least one complete personal interview are available. The following response rates were obtained at the household level for wave 8:

-

^{*} Reduction of the gross sample due to objection procedures

^{**} Expansion of the gross sample by supplementation

This issue is addressed in very different ways in Germany. Frequently, a large number of individuals or households that were not interviewed are considered ineligible and are removed from the denominator when the response rate is calculated. When a sample is drawn from registers, neither a household that is not living at the expected address nor a household that claims not to belong to the target group may be considered to have provided a neutral non-response. Moreover, the population of PASS is not restricted to German-speaking respondents or individuals who can be interviewed; therefore, the non-response reasons "does not speak German" or "respondent is sick/unable to be interviewed" cannot be considered cases of neutral non-response.

Table 4: Response rate for wave 8 at the household level by subsample

Welle 8		ВА	Microm	BA- Zugang 1	BA- Zugang 2	BA- Zugang 3	BA- Zugang 4	Auf- stockung EWO	Auf- stockung BA	BA- Zugang 5	BA- Zugang 6	BA- Zugang 7	Total
1111	abs.	2231	2608	429	572	466	494	1085	924	875	919	3134	13737
HH gross	%	100	100	100	100	100	100	100	100	100	100	ugang 6 Zugang 7 919 3134 100 100 4 31 0,4 1	100
neutral	abs.	9	17	3	3	0	4	5	9	4	4	31	89
nonresponses	%	0,4	0,7	0,7	0,5	0	0,8	0,5	1	0,5	0,4	1	0,6
HH	abs.	2222	2591	426	569	466	490	1080	915	871	915	3103	13648
gross corrected*	%	100	100	100	100	100	100	100	100	100	100	100	100
HH-interview	abs.	1738	2194	324	431	359	348	883	678	571	677	795	8998
realised	%	78,2	84,7	76,1	75,7	77	71	81,8	74,1	65,6	74	3134 100 31 1 3103 100 795 25,6 755	65,9
of this: HH	abs.	1718	2158	314	425	355	344	863	670	562	659	755	8823
willing to participate in panel	%	98,8	98,4	96,9	98,6	98,9	98,9	97,7	98,8	98,4	97,3	95	98,1

^{*} HH-brutto - neutrale Ausfälle (verstorben + ins Ausland verzogen)

Quelle: hh_register; Scientific Use File IAB - für BA-Zugang 7: Methodendatensatz infas

In a household survey, one can distinguish between the response rates at the household level and within the household.

The response rate within households indicates the average proportion of household members aged 15 or older within evaluable households for whom a complete personal interview is available.

On average, the following response rates were obtained within interviewed households:

Table 5: Average response rate among interviewed households by wave and subsample

		Wave 1	Wave 2	Wave 3	Wave 4	Wave 5	Wave 6	Wave 7	Wave 8
		%	%	%	%	%	%	%	%
	ВА	85.6	85.5	83.1	88.4	88.7	89.3	89,2	89,3
	Microm	84.2	85.1	83.6	88.0	88.3	88.6	88,4	88,6
	BA-Refreshment		86.2	84.3	90.2	89.5	88.5	90,1	91,0
Φ	BA-Refreshment 2			84.2	88.3	89.3	88.5	88,8	88,3
Sample	BA-Refreshment				89.6	91.2	91.4	89,8	90,5
	BA-Refreshment 4					88.9	92.0	90,6	91,3
	EWO supplement					84.4	89.1	89,1	89.0
	BA supplement					90.0	91.5	92,0	93,3
	BA-Refreshment 5						89.9	90,7	91,3
	BA-Refreshment 6						89,9	90,1	91,5
	BA-Refreshment 7								90,0
	Total	84.9	85.4	83.5	88.5	88.3	89.5	89,5	89,9

Source: P_Register; Scientific Use File IAB

In addition to the between- and within-household response rates, the following table provides the repeat interview rate at the individual level. This value is the proportion of individuals willing to participate in the panel with whom an interview could be conducted in the subsequent wave.

Table 6: Proportion of personal interviews in waves 2 through 8 with respondents who were willing to participate in the panel by subsample

					5	Sample							
			ВА	Micro m	BA- Refr. 1	BA- Refr. 2	BA- Refr . 3	BA- Refr . 4	EWO suppl.	BA suppl	BA- Refr. 5	BA- Refr. 5	Total
	individuals willing to participate in the panel W 1	abs.	8,925	8,938									17,863
Wave 2	re-interviewed individuals in W 2	abs.	4,274	5,828									10,102
	Share	%	47.9	65.2									56.6
	individuals willing to participate in the panel W 2	abs.	4,686	6,292	1,298								12,276
Wave 3	re-interviewed individuals in W 3	abs.	3,365	4,955	820								9,140
	Share	%	71.8	78.8	63.2								74.5
*	individuals willing to participate in the panel W 3	abs.	4,844	6,100	894	1,380							13,218
Wave 4*	re-interviewed individuals in W 4	abs.	3,287	4,347	626	854							9,114
	Share	%	67.9	71.3	70.0	61.9							69.0
	individuals willing to participate in the panel W 4	abs.	3,946	5,004	785	979	993						11,707
Wave 5	re-interviewed individuals in W 5	abs.	2,971	4,150	570	714	702						9,107
	Share	%	75.3	83.0	72.6	72.9	70.7						77.8
	individuals willing to participate in the panel W 5	abs.	3,378	4,468	645	819	756	957	2,439	1,786			15,248
Wave 6	re-interviewed individuals in W 6	abs.	2,653	3,864	486	606	563	660	1,861	1,255			11,948
	Share	%	78.2	85.7	74.4	73.7	74.1	64.8	71.9	67.5			76.6
	individuals willing to participate in the panel W 6	abs	3.034	4.216	555	711	667	712	1.973	1.337	1.264		14.469
Wave 7	re-interviewed individuals in W 7	abs	2.486	3.706	434	590	523	523	1.633	1.040	900		11.835
	Share	%	81,9	87,9	78,2	83,0	78,4	73,5	82,8	77,8	71,2		75,6
	individuals willing to participate in the panel W 7	abs	2.837	3.979	504	687	588	597	1.745	1.167	970	1.219	14.293
Wave 8	re-interviewed individuals in W 8	abs	2.238	3.381	396	544	470	449	1.446	927	740	875	11.466
_	Share	%	78,9	85,0	78,6	79,2	79,9	75,2	82,9	79,4	76,3	71,8	80,2

Source: PENDDAT; Scientific Use File IAB

 $^{^{\}star}$ Reduction of the gross sample due to objection procedures between wave 3 and wave 4

2.3 Panel participation agreements, merging data and linking with process data

Respondent consent is always required to store addresses for repeat interviews in a subsequent wave and to merge survey data with the process data obtained from the Federal Employment Agency.

Panel participation agreement was explained in detail in Chapter 2.1. HHneu¹⁶ consent to participate in the panel is illustrated as follows:

Table 7: First-time interviewed households*** consent to participate in the panel by wave

	Realised HH interviews with first-time interviewed HH	Realised HH interviews with first- time interviewed HH willing to par- ticipate in panel	Share willing to participate in panel	
	abs.	abs.	%	
Wave 1	12,794	12,000	93.8	
Wave 2	1,086	1,048	96.5	
Wave 3	1,327	1,285	96.8	
Wave 4*	903	866	95.9	
Wave 5**	3,688	3,476	94.3	
Wave 6	1,112	1,068	96.0	
Wave 7	1.130	1.089	96.4	
Wave 8	967	921	95,2	

^{*} Reduction of the gross sample due to objection procedures

Source: PENDDAT und hh_Register; Scientific Use File IAB

The consent to participate in the panel is recorded following the first personal interview in a new household during each wave. The information provided by that individual is assumed to apply to the household. That is, if the individual consents to participate in the panel, the household is considered willing to participate in the panel and if the individual

All households in wave 1 are HHneu. Subsequently, only households from the refreshment samples and split-off households participating for the first time are considered HHneu. Therefore, since wave 2, households interviewed for the first time have been in the minority - the majority of household interviews conducted in these waves were conducted previously.

^{**} Expansion of the gross sample by supplementation

^{***} First-time interviewed HH from refreshment, supplement and split

All households in wave 1 are h

does not agree to participate in the panel, the household is considered unwilling to participate in the panel (see also Chapter 2.1). 17

In contrast, permission to merge process data from the Federal Employment Agency with the survey data was obtained for each respondent who was interviewed using the personal questionnaire. This question does not apply to individuals aged 65 and over because it is not included in the senior citizens questionnaire. Consent to merging of these data is not obtained again in each wave. 18

Table 8 provides an overview of obtained consent to merge data in each wave. Only interviews in which consent to merge data was requested in that wave as part of the personal questionnaire are listed.

One individual confirms household willingness to participate in the panel. The information available on the household level was integrated into the individual dataset (PENDDAT) during data preparation. The individual respondents in the household were assigned the corresponding information available for that household. The same procedure was applied during wave 2. In wave 1; however, consent was recorded after each individual and senior citizen interview; therefore, data could vary within a household. Households with at least one individual willing to participate in the panel were considered willing to participate in the panel.

As part of updating address information after the first personal interview in re-interviewed households, it was explained that an interview would be conducted again the following year. If the respondent did not explicitly object to this notification, the household was considered to agree to participate in the panel and the panel variable in the individual dataset (PENDDAT) was updated accordingly.

Due to filtering modifications, there were cases in which permission to merge data was raised again in waves 2 and 3 if the respondent had not previously agreed to that during the previous waves.

Table 8: Consent to merge data in personal interviews (respondents aged 15-65 years) obtained by wave

abs. abs. Wave 1 17,249 13,766 Wave 2 3,358 2,560 Wave 3 2,656 2,128 Wave 4* 2,032 1,774 Wave 5** 5,145 4,414 Wave 6 2,482 2,002 Wave 7 1,973 1,613		Realised personal interviews from the wave in which the merging question was posed	Realised personal interviews from the wave in which consent to merging was granted	Share with granted consent to merging	
Wave 2 3,358 2,560 Wave 3 2,656 2,128 Wave 4* 2,032 1,774 Wave 5** 5,145 4,414 Wave 6 2,482 2,002		abs.	abs.	%	
Wave 3 2,656 2,128 Wave 4* 2,032 1,774 Wave 5** 5,145 4,414 Wave 6 2,482 2,002	Wave 1	17,249	13,766	79.8	
Wave 4* 2,032 1,774 Wave 5** 5,145 4,414 Wave 6 2,482 2,002	Wave 2	3,358	2,560	76.2	
Wave 5** 5,145 4,414 Wave 6 2,482 2,002	Wave 3	2,656	2,128	80.1	
Wave 6 2,482 2,002	Wave 4*	2,032	1,774	87.3	
	Wave 5**	5,145	4,414	85.8	
Wave 7 1,973 1,613	Wave 6	2,482	2,002	80.7	
	Wave 7	1,973	1,613	81.8	
Wave 8 1,653 1,327	Wave 8	1,653	1,327	80.3	

^{*} Reduction of the gross sample due to objection procedures

Basis: individuals 15 to 64 years of age Source: PENDDAT; Scientific Use File IAB

2.4 Split-off households

PASS is designed as a dynamic panel. Individuals who join or are born into the household are interviewed if they are at least 15 years old. Individuals who move out of sample households for one year or more should continue to be interviewed; however, these individuals are considered new, split-off households. These split-off households also become sample households in PASS. All individuals 15 years of age or more living in these households become target persons for personal interviews. If part of this split-off household in turn splits off in subsequent waves, then this new split-off household also becomes a PASS sample household regardless of whether that new household contains anyone from the original sample (see infinite degree contagion model, Rendtel & Harms 2009, 267). However, individuals who have moved abroad are removed from the survey because they no longer belong to this population and research questions specific to SGB II no longer apply. Individuals who leave the household for less than one year continue to be considered household members.

There are 951 split-off households from waves 1 to 8, of which 571 could be interviewed during wave 8, including 121 newly split-off households from wave 8 and 51 HHneu that could be identified in wave 7. Please refer to the methods report for wave 8 for further information about split-off households (Jesske & Schulz, forthcoming).

^{**} Expansion of the gross sample by supplementation

The interviewed split-off households can be identified in the datasets by comparing the current household number (*hnr*) with the original household number (*uhnr*), which differs in these cases. The original household number (*uhnr*) contains the household number of the panel household from which the new household has separated. Split-off households assume the sample indicator (*sample*), sampling year (*jahrsamp*), primary sampling unit (*psu*) and stratification (*strpsu*) of their original household.

3 Dataset structure

The usual structure for editing a panel dataset - for example, the German Socio-Economic Panel (GSOEP) or the British Household Panel Survey (BHPS) - involves storing individual and household information in annual individual datasets. If required, these individual datasets can be supplemented with specific datasets, which might have a cross-wave data structure, such as register or spell data.

This data structure allows the information to be stored using relatively little storage space. The variables for each year can be identified immediately when examining the datasets. Identifying the merged additional information via key variables, such as household or personal identification numbers, is also quite simple. However, this common panel data structure increases the difficulty of working with these datasets. If analyses are conducted not only cross-sectionally but also longitudinally, then first, all of the relevant variables from each wave dataset must be integrated into a common dataset and care must be taken to ensure that the constructs are comparable for each year. For typical longitudinal analyses, the cross-wave dataset created in this way then must be reshaped into the so-called long format. Unlike the wide format, which contains a data matrix with one row per observation unit (e.g., the household or individual) and several datasets for each survey wave, in the long format, all of the waves assigned to an observation unit are arranged below one another. Rather than arranging information in wave-specific variables in the same row, in long format, the information is assigned to the same variable in each case in wave-specific rows for the observation units.

Reshaping the data into long format has both advantages and disadvantages. The decisive advantage of this variant is that this data structure is required for many longitudinal analyses (such as event history analyses). It is no longer necessary to invest additional time and effort creating a cross-wave file. The switch from long format to wide format is also quite easy to perform. STATA, for example, provides an option to switch between formats with little effort using the "reshape" command. Until a few years ago, the central argument against using this type of data structure was the significantly larger storage space required because even variables recorded in only one or a small number of survey waves require a complete column across all of the waves in the dataset. In addition, these long files become quite large with the increasing duration of the panel because all annual waves are appended, which significantly increases the storage space required and time needed to perform individual operations. The current wide availability of fast processors and large storage capacities even on simple desktop computers render this objection irrelevant. Another disadvantage occurs when merging additional data sources. Unlike datasets prepared in wide format, an additional variable is now required to identify an

observation clearly. This variable may be a wave identifier in the household or individual datasets or the spell number in the spell datasets, which are also available in long format. Furthermore, it is not immediately apparent which variables were included in each wave because all variables are present in the dataset. These variables are assigned a special code (-9) to identify waves during which they were not surveyed.

When the advantages and disadvantages of long format are weighed, the advantages of the long format clearly outweigh the disadvantages. Accordingly, household and individual PASS datasets (*HHENDDAT*; *PENDDAT*), corresponding weighting data (*hweights*; *pweights*) and a new dataset since wave 6 on children (KINDER) were prepared in long format.

Household level Additional data Discontinued datasets No part of the scientific use file UBII spells alg2 spells (as of Welle 1) Household grid (per wave) Children dataset KINDER (as of wave 6, previous-Old-age provision households Methods/gross data ly in HHENDDAT) HAVDAT (wave 3 only) (per wave) Household register Household dataset Household weights hh_register HHENDDAT hweights Person weights Person register Person dataset p_register PENDDAT pweights Integrated spell data Unemployment Benefit I spells Refusing individuals (wave 1 bio_spells (as of wave 2) alg1_spells (wave 1 only) only) Unemployment - Employment Measure spells - other activities Proxy data (wave 1 only) - massnahmespells (wave 1 only) - mn_ spells (wave 2 & wave 3) One-Euro-Jobs Link with process-produced ee_spells (as of wave 4) Old-age provision individuals data of the BA PAVDAT (wave 3 only) Vignettes readiness to accept a job VIGDAT (wave 5 only) Additional data Discontinued datasets No part of the scientific use file Individual level

Figure 2: Dataset structure of PASS in wave 8

At the household level, the scientific use file contains the data on household receipt of Unemployment Benefit II in spell form (alg2_spells). Since wave 4, the individual level has

contained an integrated biographic spell dataset (bio_spells) that integrates and replaces the previous spell datasets et_spells, al_spells and lu_spells. Furthermore, a one Euro spell dataset (ee_spells) was introduced during wave 4. The household and person registers (hh_register; p_register) are available in wide format. During wave 5, the scientific use file was extended at the individual level by one dataset for the vignette module (VIGDAT) and was complemented by a dataset on resident children (KINDER), which includes household information. For further information on the structure of each dataset, please refer to the PASS User Guide (Bethmann & Gebhardt, 2011).

4 Generated variables

4.1 Coding responses to open-ended survey questions

Some items of the survey were gathered as closed items with an open residual category or as open-ended items. In such cases, additional variables were usually generated, ¹⁹ which differed from the original variable only insofar as the information from the open-ended responses could not be coded to the corresponding categories. Moreover, in some cases, new categories were created based on the information obtained from open-ended questions. The name of these additional variables frequently differs from that of the original variable in the last digit only, where "0" is replaced by "1." The items on country of birth, nationality and parent/grandparent country of residence before migration were anonymised and assigned variable names. ²⁰ Tables 9 and 10 provide an overview of the open-ended survey questions that were coded for wave 8.²¹

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Other information from open-ended survey questions was not coded, such as the name of the institution providing basic social security (PTK0100).

ogebland (country of birth); ostaatan (nationality); ozulanda to ozulandf (parent/grandparent country of residence before migration).

Variables for which information was obtained via open-ended questions and coded in the previous waves but not in the current wave are not listed (with the exception of the spell dataset for Unemployment Benefit II). Observations in waves without obtaining information on these variables were coded -9 (item not asked in wave) and documented in the survey wave data report.

Table 9: Coding responses to open-ended questions at the household level in wave 8

Regular vari- able name	Coded to variable	Dataset	Name
HD1100a-o	HD1101a-o	HHENDDAT	Other Employment status of HH members, proxy information, if necessary
HW0880a-i	HW0881a-j	HHENDDAT	Other reason for moving out, not listed
HBT0200a-g	HBT0201a-g	HHENDDAT	Source of information on the educational package
HBT0900a-f	HBT0901a-f	HHENDDAT	Other reasons not to apply for services of the "education and participation package"
HT0510a-g	HT0511a-g	KINDER	Other type of group or club that a child is member of
AL20550a-h	AL20551a-h	alg2_spells	Other reasons for the beginning of UB II receipt
AL21300a-h — AL22100a-h	AL21301a-h AL21401a-h AL21501a-h AL21601a-h AL21701a-h AL21801a-h AL21901a-h AL22001a-h AL22101a-h AL22102a-h AL22103a-h	alg2_spells	Other reason for benefit cut, not listed
AL22200a – AL22200h	AL22201a-h	alg2_spells	Other reason for discontinuation of receipt of UB II, not listed

Table 10: Coding responses to open-ended questions at the individual level in wave 8

Regular	Coded to	Dataset	Name	
variable name	variable			
PSM0200a-l	PSM0201a-n	PENDDAT	Other social network used in the last four weeks	
PB0230 (code 6)	PB0231	PENDDAT	Other German school qualification, not listed (update)	
PB0230 (code 7)	PB0231	PENDDAT	Other foreign school qualification, not listed (update)	
PB0400 (code 9)	PB0401	PENDDAT	Other German school qualification, not listed (first survey or not reported in previous wave)	
PB0400 (code 10)	PB0401	PENDDAT	Other foreign school qualification, not listed (first survey or not reported in previous wave)	
PB1000	PB1001	PENNDAT	Other foreign school qualification, not listed (first survey or not reported in previous wave)	
PB1300a-j (Item I)	PB1301a-j	PENDDAT	Other German training qualifications not contained in the list (first survey or no statement in the previous wave)	
PB1300a-j (Item J)	PB1301a-j	PENDDAT	Other foreign training qualifications not contained in the list (first survey or no statement in the previous wave)	
PB1600	PB1601	PENDDAT	Other qualification to which the foreign qualification corresponds, not listed	
AL0600	AL0601	bio_spells	Other reason for no longer being registered as unemployed, not listed	
BIO0100	BIO0101	bio_spells	Other type of activity, not listed	
ET2400	ET2401	bio_spells	Other source to get notice of a job	
ET2420	ET2421	bio_spells	Other social network as source to get notice of a job	
EE0300a-h	EE0301a-h	ee_spells	Other reason for not participating in a one- euro job	
EE1000a-e	EE1001a-e	ee_spells	Other reason why one-euro job was terminated prematurely	
PTK0320a-g	PTK0321a-g	PENDDAT	Other reasons not contained in the list regarding why no job was searched	
PEE0200a-d	PEE0201a-e	PENDDAT	Other source of information of one-euro jobs	
PAS0900a-g	PAS0901a-g PAS0901i	PENDDAT	Other places where target pers. obtained information about job vacancies, not listed	
PAS0920a-I	PAS0921a-l	PENDDAT	Other social network as source of information on job vacancies	
PG0900a-f	PG0901a-g	PENDDAT	Other health problems, not listed	
PG1300	PG1301	PENDDAT	Other health insurance, not listed	
PG1500a-g	PG1501a-i	PENDDAT	Other reasons to play sports more often	
PG1510a-g	PG1511a-g	PENDDAT	Other reasons to play sports less often	
PSB0100	PSB0101	PENDDAT	Other sport done most often	
PSB0900	PSB0901	PENDDAT	Other sport done most often in childhood	
PSB1200a-t	PSB1201a-t	PENDDAT	Other sport done most often in adolescence	
PP1300a-e	PP1301a-e	PENDDAT	Other private caretaking activities	
PMI0200	ogebland	PENDDAT	Other country of birth, not listed	
PMI0500	ostaatan	PENDDAT	Other nationality, not listed	
PMI1000a-f	ozulanda-f	PENDDAT	Other country of birth, not listed	

			Country from which parent/grandparent migrated
PA1100 ²²	freiz1-3	PENDDAT	First to third leisure time activity
PA1200 ²³	frwunsch	PENDDAT	Desired leisure time activity
PA1300a-g	PA1301a-g	PENDDAT	Other reason for not pursuing the leisure time activity, not listed
PSH0200 (code 9)	PSH0201	PENDDAT	Other German school qualification of mother, not listed
PSH0200 (code 10)	PSH0201	PENDDAT	Other foreign school qualification of mother, not listed
PSH0300a-i (code 7)	PSH0301a-i	PENDDAT	Other German vocational qualification of mother, not listed
PSH0300a-i (code 8)	PSH0301a-i	PENDDAT	Other foreign vocational qualification of mother, not listed
PSH0500 (code 9)	PSH0501	PENDDAT	Other German school qualification of father, not listed
PSH0500 (code 10)	PSH0501	PENDDAT	Other foreign school qualification of father, not listed
PSH0600a-i (code	PSH0601a-i	PENDDAT	Other German vocational qualification of fa-
7)			•
•	PSH0601a-i	PENDDAT	Other foreign vocational qualification of fa-
PSH0600a-i (code	PSH0601a-i	PENDDAT	Other foreign school qualification of father, not listed Other German vocational qualification of father, not listed

4.2 Harmonisation

The survey instruments for some variables changed across waves. In particular, the integration of the module "employment biography" in wave 2 provided critical information on employment status, current main employment, status of economic inactivity and receipt of UB I in a different way than in wave 1. Since then, information has been collected not only for the date of the interview but also for particular periods.

To facilitate cross-wave analyses in such cases, variables are generated for important indicators, which are harmonised across waves. Harmonisation creates a special group within the generated variables (see Section 4.4) that is used to standardise indicators collected in different ways retrospectively.

Changes between the waves can affect the entire survey concept, categories and interviewed groups. Harmonised variables thus consider different source variables that result from changed survey concepts, categories or interviewed groups. This was an effort to standardise them across waves as much as possible before variables were generated.

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The variable PA1100 is not included in PENDDAT itself, since it does not include any additional information aside from the fact whether a target person has provided an open response or replied to the question with "don't know" or "details refused". Responses of "don't know" or "details refused" in PA1100 were included in the variables freiz1-3.

The variable PA1200 is not included in PENDDAT itself, since it does not include any additional information aside from the fact whether a target person has provided an open response or replied to the question with "don't know" or "details refused". Responses of "don't know" or "details refused" in PA1200 were included in the variable frwunsch.

Thus far, the simple classification for occupational status (stibkz) has been harmonised; however, the need harmonisation is expected to increase with the duration of the panel.

Table 11: Harmonised variables in the individual dataset (PENDDAT)

Variable	Subject area	Name
stibkz	Employment	Current occupational status, simple classification, harmonised (anonymised)

Although explicitly harmonised variables also consider changes in categories and interviewed group across waves - in addition to changes in the survey concept - a second type of variable does not explicitly consider changes in the interviewed groups. These variables are generated for all waves but may contain information for different groups of respondents in each wave. These differences result from revisions to the filtering processes performed between waves and affect the source variables of generated variables.

Accordingly, cross-wave variables of this type apply in addition to harmonisations and standardise individual aspects across waves. In contrast to the harmonised variables, they are generated for each wave for all groups for which the corresponding source variables were collected. Thus, they can easily be used to evaluate the cross-section of a specific wave. However, in the longitudinal section, these differences must be considered before statements about changes between the waves can be made.

Before working with cross-wave but not harmonised variables, it should be verified whether differences in the interviewed groups might cause problems in the evaluations, and it should be determined whether standardisation is necessary. Subsequent cross-wave variables are different for the group for which they are generated.

working hours, fixed-term employment, etc., varied.

For example, in wave 1, the groups of respondents that were questioned about their employment were different from those questioned in the waves that followed. Accordingly, the respective groups that provided information about occupational status, occupational activities,

Table 12: Variables in the individual dataset (*PENDDAT*) are generated across waves but not completely harmonised

Variable	Subject area	Name
isco88	Employment	ISCO 88 (ZUMA coding), current employment, gen.
kldb	Employment	Classification of occupations 1992, current employment
azhpt2	Employment	Current actual working hrs. main employment (without marginal employment, incl. cat. info.), gen.
azges2	Employment	Current total actual working hrs. (without marginal employment, incl. cat. info.), gen.
befrist	Employment	Current activity: limited contract? Generated (all waves)
mps	Employment	Magnitude Prestige Scale, current employment, gen.
siops	Employment	Standard International Occupational Prestige Scale, current employment, gen.
isei	Employment	International Socio-Economic Index, current employment, gen.
egp	Employment	Class scheme acc. to Erikson, Goldthorpe and Portocarrero (EGP), current occupation, gen.
esec	Employment	European Socio-economic Classification (ESeC), current occupation, gen.
stib	Employment	Occupational status, code number, current employment, gen.
netges	Employment	Current total net income (without marginal employment, incl. cat. info.), gen.
alg1abez	Benefit receipt	Current receipt of UB I, gen.
aktmassn	Participation in measures	Current participation in a programme funded/promoted by the employment agency, gen.

4.3 Dependent interviewing

At various times in both the household and personal interviews, information was gathered via dependent interviewing, i.e., interviews that were dependent on the responses provided during a previous wave. In this approach, data from the previous interview are used to control the filter questions or are integrated directly into the question text of the current interview.

Two main goals were pursued, utilising information from previous waves. First, changes that occurred since the previous wave were recorded, depending on the information available from the previous wave.²⁵ At those points, information from previous waves was used to control the filter. Second, the respondent should have received information. In places where changes since the previous wave were to be collected, the interview date of the previous wave was included in the question text to clarify the definition of the reporting period.²⁶ In other places, especially where spell information was updated²⁷, the previous re-

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For example, individuals were only asked about their highest school qualification once. Only qualifications obtained since the previous interview were reported in subsequent waves.

For example, if only new school qualifications were to be reported, the following question was asked: "Have you obtained a general school qualification since our last interview on [interview date of previous wave]?"

sponse was integrated into the question text to remind the respondent and prevent incorrect changes in status. Such changes are artifacts of the open-ended survey question arising out of inaccurate memories or imprecise information.

If information from a single wave in the dataset is reviewed, information is incomplete for some respondents due to dependent interviewing, which only represents the changes between survey dates. For respondents who are interviewed for the first time about a certain topic, complete information might be information available for that wave²⁸.

During data preparation, the recorded changes are combined with information from the previous wave to create variables and datasets with complete information. The spells in the existing spell datasets are then updated. In the cross-section datasets (*HHENDDAT*, *PENDDAT*), however, generated variables are created in which the information from the previous wave is combined with the reported changes.

Table 13 and 14 provide a brief overview of the relevant updates to the questionnaires and indicate the variables for which updated information was obtained. Cases for which generated variables were updated or continued are listed in Chapter 4.4 of this data report.

Examples include updates of UB II receipts since the previous wave in the household interview or employment or unemployment updates in the individual interview.

Individuals who were asked about their school qualifications for the first time reported their highest school qualification. Therefore, complete information on the highest school qualification is available for this wave in the recorded variable. In the subsequent wave, only newly obtained school qualifications are recorded. For example, if a school qualification is recorded, it is not clear whether it represents the individual's highest school qualification. In that sense, the information obtained in the subsequent wave is incomplete in its reported variables.

Table 13: Updated information in wave 8, household questionnaire

Household questionnaire for re-interviewed households (HHalt)				
Construct	Q. no.	Note	Update in variable	
Housing situation		Form of accommodation, type of tenancy and type of hostel/home/hall of residence updated during the interview	HHENDDAT: HW0200 to HW0400	
Household structure		Household size updated during the interview Sex of the individuals in the household corrected during the interview, if necessary Age of the individuals in the household updated during the interview Family relationships updated during the interview	HHENDDAT: HA0100 HHENDDAT: HD0100a to HD01000 HHENDDAT: HD0200a to HD02000 not provided in the SUF	
Size of dwelling in sqm	HW1000	Updated in generated variable	HHENDDAT: wohnfl	
Receipt of Unem- ployment Benefit II	Module "Unemploy- ment Benefit II"	Updated in Unemployment Benefit II spell dataset Information on the HH's current receipt of Unemployment Benefit	alg2_spells: Variables of the Unem- ployment Benefit II spell da- taset HHENDDAT: alg2abez	
		II Information on the benefit units's Unemployment Benefit II receipt	p_register: bgbezs7; bgbezb7	

Table 14: Updated information since wave 8, personal questionnaire

Personal questionnaire						
Construct	Q. no.	Note	Update in variable			
Highest general school qualification	PB0220- PB1100	Updated in generated variable	PENDDAT: schul1 (without responses to open-ended questions) schul2 (with responses to open-ended questions)			
Year in which highest school qual. was gained	PB0410	Updated in generated variable	PENDDAT: schulabj			
Vocational qualifica- tion	PB1200- PB1600	Highest vocational qualification, updated in generated variable	PENDDAT: beruf1 (without responses to open-ended questions) beruf2 (with responses to open-ended questions)			
Year of vocational qualification	PB1310a-k	Updated in generated variable	berabj			
Periods of updated activities in the BIO spell dataset	BIO0600z1, BIO0600z2, BIO0400z, BIO0500z	Updated in the BIO spell dataset for attached spells	bio_spells BIO0400, BIO0500, BIO0600			
		Updated in the BIO spell dataset for attached spells Information on current employment, updated in generated variables	bio_spells: ET2300, ET2700 PENDDAT: isco88; kldb; stib; stibkz; ar- bzeit; befrist; mps; siops; isei;			
		Information on current eco- nomic inactivity/employment status, updated in generated variables	egp; esec PENDDAT: etakt; alakt; statakt			
Periods of receipt of Unemployment Bene- fit I in updated unem- ployment spells		Information on current receipt of Unemployment Benefit I	bio_spells: AL0700, AL0800, AL0900, AL1000, AL1100, AL1200			
		Updated in the BIO spell dataset for attached spells	bio_spells: AL0600, AL0601 PENDDAT: alg1abez			
Periods of updated activities in the EE spell dataset Information regarding premature end in the EE spell dataset			ee_spells: EE0800a, EE0800b ee_spells: EE0900, EE1000a-EE1000e, EE1001a EE1001e			

A distinction must be drawn between characteristics for which previously collected information is updated with information on changes between the survey dates and so-called

constant characteristics that are not expected to change over time. Therefore, these characteristics are recorded only once in PASS, but in some cases, corrections are possible. Because information on these characteristics is usually only available for the surveyed variables during the first interview, they are subsequently provided in the form of generated variables (see Chapter 4.4, Bethmann & Gebhardt, 2011).

4.4 Simple generated variables

Simple generated variables include variables for which different items in a construct are surveyed separately for technical reasons and then aggregated. Alternatively, information from the current wave is combined with information from the previous wave (see Chapter 4.3), such as the highest educational qualification (see Chapter 4.3). Important information can also be obtained by merging partial datasets (e.g., indicators for current receipt of UB I or II).

The simple generated variables for households and individuals who are interviewed on a topic for the first time can always be generated based on information from the current wave. Households and individuals who provided information on a topic during a previous wave can be differentiated in the cross-section datasets (*HHENDDAT*; *PENDDAT*) to indicate the origin of the variables necessary for variable generation. The three different types of simple generated variables are provided in table 15.

Table 15: Simple generated variables in the cross-section datasets (HHENDDAT; PENDDAT) for households and individuals who previously provided information on the topic

Туре	Generation based on source data from		Description		
	wave of the first survey of the topic for HH/individual	current wave			
unverän- derlich (uv)	yes	no	Information gathered in the first survey is generally adopted in the subsequent wave – unless input errors were corrected in the current wave. Example: zpsex (sex)		
fort- geschriebe n (fs)	yes	yes	Information that was current in the previous wave is combined with information of the current wave and updated, if necessary. <u>Example:</u> schul1 (highest school qualification)		
unabhängig neu (neu)	no	yes	The variable is newly generated from the data of the current wave in each wave, regardless of the information from the previous wave. Example: hhincome (net income of household)		

Explanations that are more detailed must be provided on the type "unveränderlich (uv)" simple generated variables for *PENDDAT*. A first-time survey of a topic with an individual does not always take place during the first wave in which the individual provides an interview. Two groups of individuals are considered first-time interview respondents even if they provide a repeat interview.

The first group is individuals moving back into a household. Individuals who move out of their previous household to form a split-off household (see Chapter 2.4) take their preload information with them. Thus, they can be treated correctly as either first-time interviews or repeated interviews. However, if an individual returns from a split-off household into a panel household in which he/she lived during a previous wave, the preload of this individual is not transferred from the split-off household to the original household. Individuals returning home are treated as first-time interviewees. This situation has occurred since wave 3. The first move-outs of HHalt occurred during wave 2, and returns may occur by wave 3.

An individual preload for dependent interviewing is created for an individual (see Chapter 4.3) only if he/she provided an interview during one of the two preceding waves. The context for this rule is that there is a point in time until which an individual is expected to re-

member the response in spell form. Individuals who last provided a personal or senior citizen interview during the third wave or earlier had passed this point. To reduce respondent stress and protect the validity of the information provided, which is presumably severely threatened beyond this limit, individuals whose reference date for information about spell results is before the relevant date are treated as first-time respondents.²⁹ This situation first occurred in wave 4 because that wave was the first time that a previous personal interview could have taken place more than two waves previously.

The information on which these generated variables are based is collected again for these two groups (e.g., in the module "social origin") because they are treated as first-time interviews. Data preparation treats this survey information identically to the information from individuals engaged in actual first-time interviews within the PASS framework. These generated variables, e.g., the status of the mother and father, are thus based on information from the current wave. No transfer of information from previous waves takes place, and there is no attempt to make the data fit plausibly with previous information. We assume that the information provided by the target person, which is processed to become generated variables, is consistent with previous information in a repeated survey. However, deviations from previously obtained information in the previous waves cannot be generally excluded. Individuals included in either group are flagged in *PENDDAT* by the variable *altbefr* as first-time respondents (code "0" or "-9" for wave 1).

These simple generated variables are provided in tables 16 to 21. The tables include short descriptions of each variable. Furthermore, the source variables to generate the variable are indicated.³⁰ For the cross-section datasets (*HHENDDAT* and *PENDDAT*), additional information identifies the type of simple generated variable shown in Table 16 (uv; fs; neu). This division is not used for spell datasets because there are no wave-specific observations. Instead, variables are newly generated at the spell level if the spell was newly included in the wave or was updated with information obtained in the current wave. In addition, register datasets follow a different logic, and no further differentiation was made.

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Excluding previously granted consent to the merging of data. This preload information is generated regardless of when the previous personal interview was provided to avoid individuals negating question *RegP0100* and de facto withdrawing their consent. The option to withdraw consent to the merging of data remains unaffected by this decision.

The data report documents how the variables in the cross-section datasets (*HHENDDAT*; *PENDDAT*) were generated for observations in previous waves. The documentation for specific waves also describes the generation of wave-specific variables in the register datasets. The generated variables in the spell datasets were always generated in the updated datasets. If a spell was not updated, the generated variables remain unchanged (with the exception that a special code was used in the censoring indicator if the spell could not be continued for technical reasons). If a spell was updated, then the most current information was used, i.e. the variables provided with information from the current wave or cross-section variables in the spells relevant for the current wave.

Table 16: Wave 8 simple generated variables in the household (HHENDDAT) and KINDER datasets (in alphabetical order)

Variable	Variable label and description	Source var. for generated var. in wave 8
alg2abez	Current receipt of UB II of the HH, generated	zensiert; AL20300; AL20400; AL20500 (alg2_spells); infor- mation on further receipts of Unemployment Benefit II
	Indicator for the household's current receipt of Unemployment Benefit II	(AL22700); hintjahr (HHENDDAT)
anzgeschw	Number of siblings in the household	
	Indicator of an individual's number of siblings	
	Parenthood and sibling status are surveyed separately. Individuals may share one parent but not call themselves siblings. Therefore, anzgeschw is not equivalent to sibling status, which can be generated through the parent indicator variable in p_register.	
bik	BIK region size classes (GKBIK10), generated	Supplied by survey institute
	The information on region size was generated by infas by converting the postcode from the address to <i>GKBIK10</i> (neu).	
blneualt	Western German States or Eastern German States, generated Divides the German states into the western states of the former FRG (excluding Berlin) and the eastern states of the former GDR (with Berlin). Infas determined the state based on the postcodes from the address data (neu).	Information generated and supplied by the survey institute on the federal state in which the household is resident at the survey date.
butaber	Eligibility for education package at point of interview	AL20200; AL20400; AL20500 (alg2_spells); HA0250a-b;
	This variable indicates that a household is eligible to draw benefits from the education and participation package if he draw one of the benefits like UB II, children's allowance, housing or social benefit since January of the year before the actual year of the survey (neu).	HW1800; HW1950; HEK0100; HEK0115; HEK1630; HEK1645 (HHENDDAT)

hhinckat Categorised household income per month (in EUR),

aen.

Categorised information on the household's income aggregated from several survey items into one variable (neu)

HEK0700; HEK0800; HEK0900; HEK1000; HEK1100 (HHENDDAT)

hhincome Household income per month (in EUR) incl. catego-

rised information, gen.

This generated variable integrates information from categorised and open-ended survey questions on net household income (neu).

HEK0600; HEK0700; HEK0800; HEK0900; HEK1000; HEK1100 (HHENDDAT)

hintjahr; hintmon; hinttag

hintdat Date of household interview

This generated variable indicates the date on which the household interview was conducted in the for-

(HHENDDAT)

mat YYMMDD (neu)

hintnum interviewer in household interviews

The artificial identifier indicates the interviewer who conducted the interview. This information is consistent between PENDDAT and HHENDDAT as well as across waves. A definite characteristic of the label always identifies the same interviewer (neu).

information that is generated and supplied by the survey institute

kindu4

Control variable: child under the age of 4 in the HH A variable indicating that at least one individual in the household is under the age of four in the wave. As the generated variable is based only on the age details in the household dataset, it is irrelevant whether this individual aged four is actually the child of another individual living in the household (neu).

HD0200a - HD0200o (HHENDDAT)

kindu13 Control variable child under the age of 13 in the

A variable indicating that at least one individual in the household is under the age of 13 in the wave. As the generated variable is based only on the age details in the household dataset, it is irrelevant whether this individual aged 13 is actually the child of another individual living in the household (neu). HD0200a - HD0200o (HHENDDAT)

kindu15

Control variable: child under the age of 15 in the HH

A variable indicating that at least one individual in the household is under the age of 15 in the wave. As the generated variable is based only on the age details in the household dataset, it is irrelevant whether this individual aged 15 is actually the child of another individual living in the household. If the response to the open-ended question on age was missing, the categorical follow-up question about the age groups was also used to generate the variable (neu).

HD0200a - HD0200o; categorical follow-up question about age group (in cases of no response in HD0200) (HHENDDAT)

kindu25

Control variable: child under the age of 18 or pupils under the age of 25 in the HH.

A variable indicating whether at least one individual in the household is under the age of 18 or that at least one individual is between the age of 18 and 25 and pupil. As the generated variable is based only on the age details in the household dataset, it is irrelevant whether this individual of the age group is actually the child of another individual living in the household. If the response to the open-ended question on age was missing, the categorical follow-up question about the age groups was used to generate the variable as well (neu).

wohnfl

Living space in sqm, gen.

Information on the size of the living space in the household's current dwelling.

In the case of re-interviewed households, the size of the living space was only asked as of the second wave if the household had moved house or if the house/apartment had changed since the previous wave (fs).

For first survey: HW1000 (HHENDDAT)

For repeated survey: wohnfl from previous wave; HW1000; (HHENDDAT)

Table 17: Simple generated variables for wave 8 in the individual dataset (PENDDAT) (in alphabetical order)

Variable	Variable label and description	Source var. for generated var. in wave 7		
akt1euro	Current part. in one-euro job, generated	zensiert (ee_spells)		
	Indicator: respondent is participating in a one-euro job program at the time of the interview (neu).			
alakt	Currently reported as unemployed, generated (as of wave 2)	zensiert; spintegr; BIO0101 (bio_spells)		
	Indicator: the TP was unemployed at the date of the personal interview of that wave (neu).			
alg1abez	Current receipt of UB I, generated	AL0700; AL1000; AL1100;		
	Indicator: respondent is receiving Unemployment Benefit I at the interview date. In wave 6, the periods since January 2010 during which the respondent was unemployed were surveyed. For each spell, additional questions about whether and when the respondent received UB I (neu).	AL1200 (bio_spells)		
apartner	Control variable: unmarried partner living in HH	Information on relationships		
	Indicator: respondent has a cohabitee or partner whose status is not specified in the household (neu).	between household mem- bers (household grid); PD0500 - PD0800 (PENDDAT)		
azhpt1	Current contractual working hrs. main employment (without marginal employment), gen	ET2005 (bio_spells)		
	Weekly contractual working hours provide the respondent's primary employment at the time of the interview. Generated from open-ended questions about working hours.			
azhpt2	Act. effective working time main employment (without minijobs, incl. cat. statements), gen.	ET2106; ET2206 (bio_spells)		
	Weekly effective working time of the main job that the respondent performed at the moment of the interview, which is generated using from open-ended questions about working hours and a categorical follow-up question in which irregular working hours were reported (neu).			
azges1	Current contractual working hrs. (without marginal employment), gen.	ET2006 (bio_spells)		
	Weekly contractual working hours for all positions held by the respondent at the time of the interview. Generated from open-ended questions about			

working hours.

azges2

Current total actual working hrs. (without marginal employment, incl. cat. info.), gen.

ET2105; ET2205 (bio_spells)

Actual weekly working hours for all positions held by the respondent at the time of the interview. Generated from responses to open-ended questions on working hours and a categorical follow-up question in which irregular working hours were re-

ported (neu).

befrist

Current employment: limited contract?

PET2510a; PET2510b (PENDDAT)

For first survey:

(PENDDAT)

(PENDDAT)

Generated (all waves)

Indicator: the employment position held by the respondent at the interview date is on a limited con-

tract (neu).

begjeewt

Start year of first employment, generated

The first year during which the respondent was employed in a regular position. To generate this variable, information about the first regular position was combined with information from the employment spells if the respondent had previously reported his/her first regular employment since January 2010 (uv).

After first survey:

begjeewt from previous wave

bjahr (bio_spells); PET3200b

begmeewt

Start month of first employment, generated

The month during which the respondent first held regular employment (generated, see begjeewt) (uv).

For first survey: bmonat (bio_spells); PET3200a (PENDDAT)

After first survey: begmeewt from previous wave (PENDDAT)

berabi

Year of the highest vocational qualification

The year in which the respondent obtained his/her highest vocational qualification at the interview date (fs).

For first survey: PB1310aj-kj (PENDDAT)

Note: The year in which the reported vocational qualifications reported in wave 1 but asked in wave For repeated survey: berabj from previous wave; PB1310aj-kj (PENDDAT)

beruf1

2.

Highest vocational qual., excl. foreign qual and open info., generated

Identifies the highest vocational qualification obtained by the interview date by ranking the vocational qualifications cited by the respondents, excl. information from open-ended questions (fs).

For first survey:

PB0100: PB0200: PB0300: PB1200b; PB1200c; PB1300a-j; (PENDDAT)

For repeated survey: beruf1 from previous wave; PB0100; PB0200; PB1200a; PB1300a-j (PENDDAT)

beruf2

Highest vocational qual., incl. foreign qual and open info., generated

Defined as in beruf1 with the following differences:

- 1. Inclusion of responses to open-ended questions;
- 2. Inclusion of foreign qualifications; and
- 3. Degrees are not distinguished by type of institution (e.g., university or other institution of higher education) but by level (Bachelor's degree; Master's degree; Ph.D.) (fs).

For first survey: PB0200; PB1301a-j; PB1500a; PB1500b;

PB1500c; PB1601 (PENDDAT)

For repeated survey: beruf2 from previous wave; PB0200; PB1301a-j; PB1500a; PB1500b; PB1500c; PB1601 (PENDDAT)

brges

Current total gross income (without marginal employment, incl. cat. info.), gen.

Contains the cumulative information on gross income from all employment (> EUR 400). Generated from the answers provided in open-ended questions on gross income and categorical follow-up question when the "don't know" or "details refused" answers were provided to open-ended questions

(neu)

ET2802; ET2902; ET3002; ET3102; ET3202; ET3302

(bio spells)

brutto

Gross income from the current main employment incl. categorised information, generated A generated variable integrating information from categorised and open-ended survey questions on gross income (neu).

ET2802; ET2902; ET3002; ET3102; ET3202; ET3302

(bio_spells)

bruttokat

Categorised gross income from the current main

employment, generated

This variable aggregates the categorised information on gross income for a specific variable, which combines several items on income catego-

ries (neu).

ET2802; ET2902; ET3002; ET3102; ET3202; ET3302 (bio_spells)

emonlewt

End point of last employment (month)

Month in which the respondent was most recently

employed. Generation look ejhrlewt (fs).

For first survey:

PET1200a (PENDDAT); ejahr; emonat

(bio_spells)

For repeated survey: ejhrlewt from previous wave (PENDDAT); ejahr; emonat (bio_spells)

ejhrlewt

Time when last employment ended (year)
Last year in which the respondent was in employment. To generate this variable, information from the employment spells was combined with information on the last employment if the respondent had been out of work since January 2010 (fs).

<u>For first survey:</u> PET1200b (PENDDAT); ejahr; emonat (bio_spells)

For repeated survey: ejhrlewt from previous wave (PENDDAT); ejahr; emonat (bio_spells)

ekin1517

Control variable: own child aged between 15 and 17 in the household

Information on relationships between household members (household grid)

A variable indicating whether the respondent has a natural child, a stepchild/adopted child or a child of non-specified status aged between 15 and 17 in the household (neu).

ekind

Control variable: own child in HH

A variable indicating whether the respondent has a natural child, a stepchild/adopted child or a child of non-specified status of any age in the household (neu).

Information on relationships between household members (household grid)

It can occur in rare household constellations that according to *ekind*, an individual has children living in the household, but their *pnr* does not appear in the pointers *zmhh* and *zvhh* of *p_register*. This can occur in case of same-sex relationships with children or if both the current and the former partner live in the household.

ekin614

Control variable: own child aged between 6 and 14 in the household

A variable indicating whether the respondent has a natural child, a stepchild/adopted child or a child of non-specified status aged between 6 and 14 in the household (neu).

Information on relationships between household members (household grid)

ekinu15

Control variable: own child under the age of 15 in

A variable indicating whether the respondent has a natural child, a stepchild/adopted child or a child of non-specified status under the age of 15 in the household (neu).

Information on relationships between household members (household grid)

ekinu18

Control variable: own child under the age of 18 in

A variable indicating whether the respondent has a natural child, a stepchild/adopted child or a child of non-specified status under the age of 18 in the household (neu).

Information on relationships between household members (household grid)

epartner

Control variable: spouse or registered partner in HH A variable indicating whether the respondent has a spouse or a same-sex registered partner in the household (neu).

Information on relationships between household members (household grid) etakt

Currently employed (>EUR 400 per month), gen. (as of wave 2)

zensiert, spintegr, BIO0101 (bio_spells)

A variable indicating whether the TP had an ongoing spell of employment at the time of the personal interview of the respective wave (i.e. employment earning > EUR 400) (neu).

famstand

Marital status, gen.

Generation of a marital status variable integrating information from the personal questionnaire and the control variable *epartner* generated from the household dataset (neu).

epartner; PD0500; PD0700 (PENDDAT)

gebhalbj

Half-year of birth, gen.

A variable indicating whether the date of birth is in the first or second half of the year of birth (neu). Information on month of

kindzges

Total number of own children (living in and outside

the household), gen.

Total number of the respondent's children including the children living in his/her household and the children living outside the household (neu). Information on relationships between household members (household grid); PD0900; PD1000; PD1100 (PENDDAT)

kindzihh

Number of own children in the household, gen. Variable generated on the basis of the responses in the household questionnaire concerning the number of children that an individual in the household has (total number of individuals in the household (half) matrix who count as children of the respondent plus the number of individuals in the household (half) matrix for whom the respondent is classified as being a parent) (neu).

Information on relationships between household members (household grid)

Note: When using this variable it should be borne in mind that it relates to each individual person. This means that a child who lives in a household together with his/her parents is counted as a "child in the household" for both the father and the mother. Aggregating this variable across the household members will therefore not produce any meaningful results.

mberuf1

Highest vocational qualification attained by the mother, incl. mother in the HH, excl. information from open-ended survey questions, gen.

For first survey: PSH0300a-i (PENDDAT)

In wave 1, the question about the mother's vocational qualification was asked only if the mother was not living in the survey household. If she was living in the household, this information was obtained from her personal interview.

After first survey: mberuf1 from previous wave (PENDDAT)

As of wave 2, the question regarding the mother's vocational qualification has been posed to all newly interviewed individuals regardless of whether the

mother was living in the household.

After wave 2, for respondents taking part in a repeated interview, the values were transferred from the generated variable *mberuf1* from the previous wave (uv).

mberuf2

Defined as in *mberuf1* except that responses to open-ended questions were also considered to generate *mberuf2* (uv).

For first survey: PSH0301a-i (PENDDAT)

After first survey:
mberuf2 from previous
wave (PENDDAT)

mhh

Control variable: mother living in HH A variable indicating whether the respondent's biological mother, stepmother, adoptive mother or mother of non-specified status lives in the household (neu).

Information on relationships between household members (household grid)

migration

Respondent's migration background, generated The following four categories were included in a generated variable for migration background: no migration background; personal migration (first generation); migration of at least one parent but no personal migration (second generation); migration of at least one grandparent but not the respondent or either parent (third generation) (uv).

For first survey: PMI0100; PMI0700; PMI0800a-f; PMI0900a-f (PENDDAT)

After first survey: migration from previous wave (PENDDAT)

<u>Note:</u> The concept for generating this variable has been revised as of wave 2. Previously, only the information on whether the respondent was born in Germany and which ancestor moved to Germany was collected. Now, information on whether an ancestor was born outside Germany and if applicable, which ancestor, is included. To guarantee consistency across waves, the variable for wave 1 was regenerated.

mschul2

Highest general school qualification attained by the mother, incl. mother in HH, incl. information from open-ended questions, gen.

Same as *mschul1*, apart from the fact that responses to open-ended questions were also taken into account for the generation of *mberuf2* (uv).

For first survey: PSH0201 (PENDDAT)

After first survey:
mschul2 from previous
wave (PENDDAT)

mschul1

Highest general school qualification attained by the mother, incl. mother in HH, incl. information from open-ended questions, gen.

For first survey: PSH0200 (PENDDAT)

In wave 1, the mother's highest academic qualification was inquired about only if the mother was not living within the survey household. If she was living in the household, this information was obtained

After first survey: mschul1 from previous

from her personal interview (uv).

wave (PENDDAT)

As of wave 2, the mother's highest academic qualification has been asked of all newly interviewed individuals regardless of whether the mother was living in the survey household.

mstib

Mother's occupational status, code number, gen. The detailed occupational status of the mother was generated from the individual variables (uv).

For first survey: PSH0320; PSH0330; PSH0340; PSH0360;

PSH0370; PSH0380 (PENDDAT)

After first survey: mstib (PENDDAT)

netges

Current total net income (without marginal employment, incl. cat. info.), gen.

ET3402; ET3502; ET3602; ET3702; ET3802; ET3902 (bio_spells)

This variable contains the accumulated information on net income from all employment positions (> EUR 400), which is generated from the answers to open-ended questions on net income and a categorical follow-up question when respondents provided "don't know" or "details refused" answers to open-ended questions (neu).

netto

nettokat

Net income of the current main employment incl. categorised information, gen.

A generated variable integrating information from categorised and open-ended survey questions on net income (neu).

ET3402; ET3502; ET3602; ET3702; ET3802; ET3902 (bio_spells)

Categorised net income from the current main em-

ployment, gen.

ET3402; ET3502; ET3602; ET3702; ET3802; ET3902 (bio_spells)

This variable aggregates the categorised information on net income for a specific variable, which combines several items on income categories (neu).

palter

Age (from PD0100), gen.

The respondent's age is generated from the date of birth and date of the current personal interview

(neu).

PD0100; pintjahr, pintmon, pinttag (PENDDAT)

Willingness to participate in the panel (neu) panel

Information supplied by the survey institute regarding the households' willingness to participate in the

panel.

pintdat Date of personal interview

> This generated variable indicates the date on which the personal interview was conducted in the format YYMMDD (neu).

pintjahr, pintmon, pinttag (PENDDAT)

pintnum

interviewer in personal interview

The artificial identifier indicates the interviewer who conducted the interview. This information is consistent between PENDDAT and HHENDDAT as well as across waves. A definite characteristic of the label always identifies the same interviewer (neu).

Information that is generated and supplied by the survey institute.

schul1

Highest school qualification, excl. foreign qualifications and information from open-ended survey questions

This variable records the highest academic qualification. Equivalent Eastern and Western German qualifications were combined (e.g., EOS and Abitur), but information from open-ended questions

For first survey: PB0200; PB0220; PB0230; PB0300; PB0400 (PENDDAT)

was excluded (fs).

and

For repeated survey: schul1 from previous wave; PB0200; PB0220; PB0230; PB0300; PB0400

(PENDDAT)

schul2

Highest school qualification, incl. foreign qualifications and information from open-ended survey questions

Defined as in schul1 with the following differences: 1. inclusion of responses to open-ended questions;

2. inclusion of information about foreign qualifications (fs).

For first survey: PB0200; PB0220; PB0231; PB0300; PB0401 (PENDDAT)

For repeated survey: schul2 from previous wave; PB0200; PB0220; PB0231; PB0300; PB0401

(PENDDAT)

schulabi

Year in which highest school qual. was attained

Year in which the respondent attained his/her highest academic qualification (fs).

Note: Re-interviewed respondents for whom information regarding the highest school qualification was already available from a previous wave were not asked in the current wave about the year when this qualification was attained if they had attained a new qualification since the previous wave. In this case, the year in which the qualification was attained was estimated depending on the month and year of the interview. If the interview in wave 6 was conducted before May 2012, it was assumed that the qualification was gained in 2011, if the interview was conducted later than May, the qualification was assumed to have been gained in 2012.

For first survey: PB0220; PB0230; PB0410; pintjahr; pintmon (PENDDAT)

For repeated survey:

schulabj from previous wave; PB0220; PB0230; PB0410; pintjahr; pintmon (PENDDAT)

statakt

Current main status, generated (as of wave 2)

Indicates which main status the TP had at the date of the personal interview of the respective wave

zensiert; spintegr; BIO0101; az2ges (bio_spells)

(neu).

stib

Occupational status, code number, generated A generated of the detailed code number for occupational status from the individual variables.

ET0605; ET0705; ET0805; ET0905; ET1005; ET1105; ET1205 (bio_spells)

A generated variable using information from the module "employment" (*ET060*-ET120**). If there was more than one ongoing employment spell, the one with the most hours of work was selected. If there was more than one ongoing spell with exactly the same amounts of hours, the one that started first was selected (neu).

stibeewt

Occupational status, first employment, code number, generated Detailed code number of the occupational status in the respondent's first regular employment. To generate the variable, information regarding the first regular employment was combined with information from the employment spells if the respondent had already reported his/her first regular employment during the questions on employment spells since January 2010 (uv).

For first survey:
PET3300; PET3400;
PET3500; PET3600;
PET3700; PET3800;
PET3900 (PENDDAT);
ET0605; ET0705; ET0805;
ET0905; ET1005; ET1105;
ET1205 (bio_spells)
After first survey:
stibeewt from previous
wave (PENDDAT)

stiblewt

Occupational status, last employment, code number, generated

Detailed code number of the occupational status in the respondent's last employment. Information from the employment spells were combined with information on the last employment for the generation if the respondent has been unemployed since January 2010 (fs). For first survey:
PET1210; PET1220;
PET1230; PET1240;
PET1250; PET1260;
PET1270 (PENDDAT);
ET0605; ET0705; ET0805;
ET0905; ET1005; ET1105;

ET1205 (bio_spells)

For repeated survey: stiblewt from previous wave (PENDDAT); ET0605; ET0705; ET0805; ET0905; ET1005; ET1105; ET1205 (bio_spells)

vberuf1

Highest vocational qualification attained by the father, incl. father in the HH, excl. open info., gen. A generated variable for father's highest vocational qualification analogous to *mberuf1* (uv).

For first survey: PSH0600a-i (PENDDAT)

After first survey: vberuf1 from previous wave (PENDDAT)

vberuf2

Highest vocational qualification attained by the father, incl. father in the HH, incl. open info., gen. A generated variable for father's highest vocational qualification (incl. information from open-ended survey questions) analogous to mberuf2 (uv).

For first survey: PSH0601a-i (PENDDAT)

After first survey: vberuf2 from previous wave (PENDDAT)

vhh	Control variable: father living in HH Variable indicating that the respondent's natural fa- ther, stepfather, adoptive father or father of non- specified status is living in the household (neu).	Information on relation- ships between household members (household grid)
vschul1	Highest general school qualification attained by the father, incl. father in HH, excl. information from open-ended questions, gen. A generated variable for father's highest general	For first survey: PSH0500 (PENDDAT)
	academic qualification analogous to mschul1 (uv).	After first survey: vschul1 from previous wave (PENDDAT)
vschul2	Highest general school qualification attained by the father, incl. father in household, incl. open info., gen. This generated variable records the father's highest	For first survey: PSH0501 (PENDDAT)
	general academic qualification (including information from open-ended survey questions) and is analogous to mschul2 (uv).	After first survey: vschul2 from previous wave (PENDDAT)
vstib	Father's occupational status, code number, generated The detailed occupational status of father is generated from individual variables (uv).	For first survey: PSH0620; PSH0630; PSH0640; PSH0660; PSH0670; PSH0680 (PENDDAT)
		After first survey: vstib from previous wave (PENDDAT)

Table 18: Wave 8 simple generated variables included in the spell dataset for Unemployment Benefit II (alg2_spells) (provided in the same order as in the dataset)

Variable	Variable label and description	Source var. for generated var. in wave 8
bmonat	Spell of UB II: start month, generated The month in which the spell of receiving Unemployment Benefit II began. If information was only available on the season when a spell began, the season was converted into a month to generate the variable. Note: The generated date variables were both checked for plausibility and corrected when necessary. The dates originally reported by the respondent have been included in the source variables as of wave 2. The season in which the spell began were recoded into months as follows: 21 beginning of year/winter → January 24 spring/Easter → April 27 middle of year/summer → July 30 autumn → October 32 end of year → December	AL20100 (alg2_spells)
bjahr	Spell of UB II: start year, generated The year during which the spell of receiving Unemployment Benefit II ended. Note: see bmonat	AL20200 (alg2_spells)
emonat	Spell of UB II: end month, generated	AL20300 (alg2_spells);
	The month during which the spell of UB II receipts ended. To generate this variable, information about the season was converted into a month. For right-censored spells (i.e., spells that were ongoing when the household was interviewed), the interview month was entered. Note: see bmonat	hintmon (HHENDDAT)
ejahr	Spell of UB II: end year, generated	AL20400 (alg2_spells);
	The year during which the spell of Unemployment Benefit II ended. In the case of right-censored spells (i.e., spells that were ongoing when the household was interviewed), the interview year was entered. Note: see bmonat	hintjahr (HHENDDAT)

alg2kbma

alg2kbmh

UB II: 1st cut: start month, generated

The month during which Unemployment Benefit II was reduced. To generate this variable, information about the season was converted into a month.

Note: These UB II reductions are embedded in spells of UB II receipts. Information on an individual benefit reduction can be distinguished via the indicator at the end of the respective variable (a h). The generated date variables were checked for plausibility and corrected if necessary. The dates originally reported by the respondent have been included in the source variables since wave 2.

1st benefit cut: AL21000a

(alg2_spells)

8th benefit cut: AL21000h

(alg2 spells)

alg2kbjaalg2kbjh

UB II: 1st benefit cut: start year, generated The year during which the Unemployment Benefit

Note: see alg2kma - alg2kbmf

II reduction began.

1st benefit cut: AL21100a (alg2_spells)to

8th benefit cut: *AL21100h*

alg2kema

alg2kemh

UB II: 1st benefit cut: end month, generated The month during which the Unemployment Benefit II reduction ended. To generate this variable, information on the season was converted into a month. If the respondent reported the duration of the benefit reduction, this information was used to calculate the end date of the benefit cut based on the generated start date.

Note: see alg2kma - alg2kbmf

(alg2 spells) 1st benefit cut: alg2kbma; alg2kbja; AL21200a; AL21201a;

8th cut:alg2kbmh; alg2kbjh;

AL21202a (alg2_spells)

AL21200h; AL21201h; AL21202h (alg2_spells)

alg2keja alg2kejh

UB II: 1st benefit cut: end year, generated Year in which the Unemployment Benefit II cut ended. If the respondent reported a duration for the benefit cut, this information was used to calculate the end date of the benefit cut

based on the generated start date. Note: see alg2kma - alg2kbmf

1st benefit cut: *alg2kbma*; alg2kbja; AL21200a; AL21201a; AL21202a (alg2_spells)

8th benefit cut: alg2kbmh; alg2kbjh; AL21200h; AL21201h; AL21202h (alg2_spells)

AL22150a

UB II: benefit cut: which HH member's benefit was cut, gen.

to AL22150h

This variable records which household members experienced reductions in Unemployment Benefit II. This is a string variable with 15 positions. Starting from the left, each position in this variable represents the position of one individual on the household grid. The first position of the variable, for example, indicates whether Unemployment Benefit II was cut for the first individual in the household during the particular benefit reduction spell, the second position indicates whether the second individual's benefit was reduced, etc. Because source information for the generated variable was collected from wave 2 to wave 4, all 15 positions are coded "I" (i.e., item not asked in wave) for all benefit cuts reported during the first wave and since wave 5 (see below). Each of the 15 positions of this variable, which represent one of a maximum of 15 individuals in the household, is assigned one of the following codes indicating each individual' benefit status.

Information which household member's benefit was cut in the respective benefit cut spell (only surveyed until wave 4).

Codes:

1 – the household member's UB II was cut

2 - the household member's UB II was not cut

W – don't know

K - not specified

T – not applicable (filter)

F - question mistakenly not asked

U - implausible value

I – item not recorded in wave.

zensiert

Spell of UB II: spell ongoing at time of last HH interview (right-censored.), generated

The censoring indicator shows whether a spell was still ongoing at the time of the last household interview.

Note: A spell is regarded as censored if one of the following conditions is met:

- (a) It is a censored spell of a household from one of the previous waves that had not been reinterviewed in the subsequent waves up to the current wave.
- (b) A household surveyed in wave 6 reports that a spell of UB II is still ongoing on the interview date in wave 7, or an end date is reported that is identical to the interview date in wave 7 and it is confirmed in the follow-up question that the benefit receipt is still currently ongoing.

Code -5 was given if the household reference person of the previous wave was no longer living in the household in wave 7 and was not interviewed in wave 7.

AL20300; AL20400, AL20500 (alg2_spells)

Table 19: Simple generated variables for wave 8 in the BIO spell dataset (bio_spells) (in the same order presented in the dataset)

Variable	Variable label and description	Source var. for generated var. in wave 8
bmonat	Employment: start month, generated The month during which the employment spell began. To generate the variable information on the season was converted into a month. Note: The generated date variables were checked for plausibility and corrected if necessary. The dates originally reported by the respondent are included in the source variables. Details regarding the season in which the spell began were recoded into months as follows: 21 beginning of year/winter → January 24 spring/Easter → April 27 middle of year/summer → July 30 autumn → October 32 end of year → December	BIO0200 (bio_spells)
bjahr	Employment: start year, generated The year during which the employment spell began. Note: see bmonat	BIO0300 (bio_spells)
emonat	Employment: end month, generated The month during which the employment spell ended. To generate the variable information on the season was converted into a month and for right-censored spells (i.e., spells that were ongoing when the individual was interviewed), the interview month was entered. Note: see bmonat	BIO0400, BIO0600 (bio_spells); pintmon (PENDDAT)
ejahr	Employment: end year, generated The year during which the employment spell ended. For right-censored spells (i.e., spells that were ongoing when the individual was interviewed), the interview month was entered. Note: see bmonat	BIO0500, BIO0600 (bio_spells); pintjahr (PENDDAT)

zensiert

Employment: spell still currently ongoing (right censoring)

The censoring indicator shows whether a spell was ongoing at the time of the personal interview in the previous wave, i.e., whether it is a right-censored spell.

BIO0400; BIO0500; BIO0600 (bio_spells)

Note: A spell is considered censored if one of the following conditions is met: the individual reports an end date of the BIO spell that the employment is ongoing on the interview date. Alternatively, when a reported end date is identical to the interview date, the follow-up question confirms that the activity is ongoing.

stib

Occupational status, code number, generated A detailed code for individual occupational status is generated from the individual variables. <u>Collection of spell information in</u> wave 8

ET0605; ET0705; ET0805; ET0905; ET1005; ET1105; ET1205 (bio_spells)

Otherwise, the value from the previous wave remains

az1 Weekly contractual working hours

<u>Collection of spell information in</u> wave 8

ET2005 (bio_spells)

Otherwise, the value from the previous wave remains

az2 Weekly working hours incl. details in the case of irregular working hours, gen.

An integrated variable on weekly hours worked in the position held by the respondent, combining responses to open-ended questions on working hours and a categorical follow-up question. For the closed categories, the follow-up question utilised the mean values for the categories. For the open-ended category, the median of the weekly working hours reported (40 hours or more) was used.

<u>Collection of spell information in</u> <u>wave 8</u>

ET2105; ET2205 (bio_spells)

Otherwise, the value from the previous wave remains

alg1bm Receipt of UB I: start month, generated

The month during which the spell of Unemployment Benefit I began. To generate this variable, information on the season was converted into a month.

Note: Periods during which Unemployment Benefit I is received are embedded in the spells of registered unemployment. An individual can receive a maximum of one period of UB I per period of registered unemployment. The generated date variables were checked for plausibility and corrected if necessary. The dates originally reported by the respondent are included in the source variables.

AL0800 (bio_spells)

For conversion to months, see bmonat.

alg1bj Receipt of UB I: start year, generated

The year during which the spell of Unemployment

Benefit I began.

Note: see alg1bm

AL0900 (bio_spells)

alg1em Receipt of UB I: end month, generated

The month during which the spell of Unemployment Benefit I ended. To generate the variable information, the season was converted into a month. For right-censored spells (i.e., spells that were ongoing at the time of the interview), the interview date was entered.

Note: see alg2kma - alg2kbme

AL1000; AL1200 (bio_spells); pintmon (PENDDAT)

alg1ej Receipt of UB I: end year, generated

The year during which the spell of receiving Unemployment Benefit I ended. In right-censored spells (i.e., spells that were ongoing at the time of the interview), the interview date was entered.

Note: see alg2kma - alg2kbme

AL1100; AL1200 (bio_spells); pintjahr (PENDDAT)

alg1akt

Receipt of UB I: spell still currently ongoing (right censoring)

This variable indicates whether the spell of receiving Unemployment Benefit I was ongoing at the time of the personal interview during the previous wave, i.e., whether it is right-censored.

Note: A spell is considered censored if one of the following conditions is met: the individual reports an end date for receiving Unemployment Benefit I that indicates that the benefits are ongoing. Alternatively, an end date identical to the interview date is reported. The follow-up question confirms that benefits are ongoing. This variable is generated based on generated date variables, which have been checked for plausibility.

emonat; ejahr; AL1000; AL1100; AL1200 (bio spells)

br	Gross income (incl. categorised info.), gen. This variable is generated for spells that are ongo-	ET2802; ET2902; ET3002; ET3102; ET3202; ET3302
	ing during wave 7 using wave 7 data. For spells that ended or have not been updated in wave 7, information from wave 6 is used to calculate the variable.	ET2801; ET2901; ET3001; ET3101; ET3201; ET3301 (bio_spells)
net	Net income (incl. categorised info.), gen. For ongoing spells during wave 7, this variable is	ET3402; ET3502; ET3602; ET3702; ET3802; ET3902; ET3401; ET3501; ET3601;
	generated using wave data. For spells that ended or have not been updated in wave 7, the information from wave 6 is used to calculate the variable.	ET3400; ET3500; ET3600; ET3700; ET3800; ET3900; ET3701; ET3801; ET3901; (bio_spells)

Table 20: Wave 8 simple generated variables included in the one - euro spell dataset (ee_spells) (in the same order presented in the dataset)

Variable	Variable label and description	Source var. for generated var. in wave 8
bmonat	Measure: start month, generated The month during which the active labour market policy spell began. To generate this variable, information about the season was converted into a month. Note: The generated date variables were checked for plausibility and corrected if necessary. The dates reported by the respondent (excluding identified implausible values) are included in the source variables. Seasons during which the spell began were recoded into months as follows: 21 beginning of year/winter → January 24 spring/Easter → April 27 middle of year/summer → July 30 autumn → October 32 end of year → December	EE0600a (ee_spells)
bjahr	Measure: start year, generated The year during which the active labour market policy spell began. Note: see bmonat	EE0600b (ee_spells)
emonat	Measure: end month, generated The month during which the active labour market policy ended. To generate the variable, information about the season was converted into a month. For right-censored spells (i.e., spells that were ongoing at the time of the interview), the interview date was entered. Note: see bmonat	EE0600a; EE0600b; EE0700; EE0800a; EE0800b (ee_spells); pintmon, pintjahr (PENDDAT)
ejahr	Measure: end year, generated The year during which the active labour market policy spell ended. For right-censored spells (i.e., spells that were ongoing when the individual was interviewed), the interview date was entered. Note: see bmonat	EE0600a; EE0600b; EE0700; EE0800a; EE0800b (ee_spells); pintjahr; pintjahr (PENDDAT)
zensiert	Measure: spell still currently ongoing (right censoring) The censoring indicator records whether a spell was ongoing at the time of the personal interview during the previous wave, i.e., whether this is a right-censored spell.	EE0700 (ee_spells)

Table 21: Wave 8 simple generated variables included in the person register dataset (p_register) (in alphabetical order)

Variable	Variable label and description	Source variable(s) for wave 8 generated variables
alter8	Age of individual in wave 8 (2014)	PD0100; pintjahr; pintmon; pinttag (PENDDAT); HD0200a
	A variable contains the best available information about an individual's age. This is either (a) the age calculated from the date of birth reported in wave 8 or (b) the age reported in the household interview if no date of birth is available from wave 8. The information from alter8 is transferred to the household dataset, which corresponds to the information in <i>HD0200a</i> to <i>HD0200o</i> . This procedure is consistent with conventions in the field. Even during the fieldwork, age was populated using the best available information. During fieldwork, the age variable is first populated using the age information obtained from the household interview. If a personal interview is conducted, this variable is overwritten in the database using the age calculated from the details obtained in the personal interview (date of birth, date of personal interview). The age information provided in the household and individual datasets are based on this variable. The best age information included in the household dataset for wave 8 was considered during the plausibility checks as well as generating the benefit unit and household type.	to HD0200o (HHENDDAT)
erwprox8	Employment status according to HH interview in wave 8 (2014)	HD1101*
	This variable is transferred unchanged as HD1101* from the current wave from the HHENDDAT dataset.	
kinddat8	Person included in the KINDER dataset in wave 8 (2014)	pnr (KINDER)
	This variable indicates whether an individual is included in the KINDER dataset.	
korrsex	Info. on sex was corrected between survey waves	HD0100a to HD0100o of all
	For individuals who belonged to a sample HH in more than one wave, this variable indicates whether their sex was corrected in the household interview.	waves (HHENDDAT)
lastint	Survey wave of last interview at individual level	Personal interviews from all
	This variable indicates the wave in which the last individual interview was conducted (personal or	waves (PENDDAT)

senior citizen interview).

neuj8

Year in which individual joined current HH, reported in wave 8 (2014)

This variable indicates the year during which an individual joined the current household of which he/she is a member reported during wave 8. Note: The wave 8 interview with the reinterviewed household provides that date when the individual moved or was born into the household since the previous wave.

Information on the date since which an individual has belonged to a household. Surveyed in the household grid

neum8

Month in which individual joined current HH, reported in wave 8 (2014)

This variable indicates the month that the individual joined the household of which he/she is a current member.

Note: see neuj8

Date an individual joined a household. Surveyed in the household grid.

wegj8

Year since which individual has no longer been living in previous HH, reported in wave 8 (2014)

This variable indicates the year that the individual ceased to be a member of the household of the previous wave.

Note: Information on the date comes from the wave 8 interview with the household in which the individual was living in the previous wave.

Date an individual ceased to belong to a household. Surveyed in the household grid

wegm8

Month since which individual has no longer been living in previous HH, reported in wave 8 (2014)

This variable indicates the month that the individual ceased to be a member of the household of the previous wave.

Note: see wegj8

Date an individual ceased to belong to a household. Surveyed in the household grid

zdub8

Pointer: Personal identification no. of the individual doubled by the TP in wave 8 (2014)

Indicates that an individual from an original HH currently lives in a split-off HH without the original HH having reported the move of this individual. Note: For matchings with the *p_register* via the personal identification number, one must first generate a match variable equalling zdub*, if it exceeds 0, or otherwise equalling pnr. Chapter 5.4.1.2 of the data report for wave 5 of PASS provides a detailed explanation on the reasons for the introduction of this variable.

Information on all original household members of an original household and all of its splitoff households are included in the household grid of the current and the previous waves.

zmhh8

Pointer: Personal ID number of target person's mother in HH in wave 8 (2014)

Contains the personal identification number of the

Relationships between household members (household grid). mother if she is living in the household. Biological mothers, stepmothers, adoptive or foster mothers and mothers whose status is not specified are considered mothers.

zparthh8 Pointer: personal ID number of target person's

partner in HH in wave 8 (2014)

Relationships between household members (household grid).

Contains the personal identification number of a partner living in the household. Spouses, registered partners, cohabitees and partners whose status is not specified are considered partners.

zupanel Survey wave in which individual joined panel

This variable indicates the wave in which the individual was a member of a sample household for the first time. The individuals living in a household across waves (household grid).

zvhh8 Pointer: Personal ID number of target person's fa-

ther in HH in wave 8 (2014)

Relationships between household members (household grid).

Contains the personal identification number of the father if he lives in the household. Biological fathers, stepfathers, adoptive or foster fathers and fathers whose status is not specified are consid-

ered fathers.

The individual-level datasets contain a multitude of generated and constructed variables, including variables (e.g., occupational status) that are recorded in more than one dataset. Figure 3 provides an overview of both the simple and complex generated variables at the individual level.

Figure 3: Overview of generated variables for wave 8 at the individual level

	PENDDAT				BIO-Spells	EE_Spells	
	Current status	Employme	ent history	Social origin		Employment and unemploy-ment bi-	One-euro job participation
		Last employ- ment	First employ- ment	Mother	Father	ography	
Education	berabj						
	beruf1 beruf2			mberuf1 mberuf2	vberuf1 vberuf2		
	schulabj			MBCIGIZ	VDCIUIZ		
	schul1			mschul1	vschul1		
	schul2			mschul2	vschul2		
Education classi- fication	casmin			mcasmin	vcasmin		
ilcation	isced97 bilzeit			misced97 mbilzeit	visced97 vbilzeit		
Information on	akt1euro			mblizeit	VDIIZEIL		
current status	alakt						
	etakt						
	statakt					spelltyp	
Socio-economic position	egp	egplewt	egpeewt	megp	vegp	egp	
position	esec isei	eseclewt iseilewt	eseceewt iseieewt	mesec misei	vesec visei	esec isei	
	mps	mpslewt	mpseewt	mmps	vmps	mps	
	siops	siopslewt	siopseetw	msiops	vsiops	siops	
Occupational sta-	stip	stiblewt	stibeewt	mstib	vstib	stib	
tus	stibkz						
Date of employ- ment			begmeewt			bmonat bjahr	bmonat
ment		emonlewt	begjeewt			emonat	bjahr emonat
		ejhrlewt				ejahr	ejahr
Date of unem-		-,				alg1bm	- Jan
ployment						alg1bj	
						alg1em	
Information on	la efeta (alg1ej	
Information on employment	befrist azhpt1					az1	
	azhpt2					az2	
	azges1						
	azges2						
Occupation	isco88	iscolewt	iscoeewt	misco	visco	isco88	
Employed in	kldb	kldblewt	kldbeewt	mkldb	vkldb	kldb	
which industry	branche					branche	
Income	netges						
	brges netto						
	nettokat						
	brutto						
Benefit receipt	bruttokat alg1abez					alg1akt	
Soliciat recorpt	hhalg2					aigrant	
Houshold context	hhgr						
and civil status	famstand						
	vhh mhh						
	apartner						
	epartner						
	ekind ekin614						
	ekinu15						
	ekinu18						
	ekin1517 kindzges						
	kindzihh						
Migration backround	ogebland ostaatan						
Sacki Juliu	ostaatan ozulanda						
	ozulandb						
	ozulandc						
	ozulandd ozulande						
	- OZGIGINGO		<u> </u>				

	ozulandf			
	migration			
Information on	gebhalbj			
individual	palter			
	zplathh			
	zpsex			
General	altbefr			
	fb_vers			
	panel			
	pintdat			
	RegP0100			
	sample			
Leisure time be-	freiz1			
haviour	freiz2			
	freiz3			
	frwunsch			

4.5 Constructed variables

Constructed variables are generated variables that require more extensive coding or recoding. In most cases, these variables have been empirically tested elsewhere and are based on theoretical concepts. At least some of these are standardized instruments used in social sciences or economics, such as the European Socio-economic Classification (ESeC), the International Standard Classification of Education (ISCED) or equivalised household income. This chapter provides detailed descriptions of the constructed variables made available in the PASS data, along with a short overview of the theoretical background and the most important references.

Individual level

Education in years

bilzeit Variable name

Explanation

Variable label Duration of school education and vocational training in years, generated

schul2; beruf2 Source variables

Education / individual-level data Type / dataset

Prepared by Bernhard Christoph

> For many statistical models, a linear variable for education and training is more appropriate than a categorical variable. For school qualifications, it is easy to convert categorical data to linear data. The linear value simply corresponds to the time spent in school until attainment of the final qualification. Care must be taken to ensure that equivalent qualifications are assigned identical durations. An upper secondary school certificate, for example, should always be labeled with the same duration regardless of whether it was obtained after twelve or thirteen years of education. Final

Lower secondary school certificate, lower secondary school certificate from the former GDR (POS) after completion of grade 8: 8 years

Other degree: 9 years

Intermediate secondary school certificate;

qualifications were assigned the following durations:

intermediate secondary school certificate from the former GDR (POS) after completion of grade 10: 10 years

Entrance qualification for university for applied sciences: 12 years

General qualification for university or subject-specific higher education entrance (including EOS—similar qualification in the former GDR): 13 years

Vocational qualifications differ because of their numerous, different requirements and potentially large differences in income even for qualifications with similar training duration. The training duration may not be subjected to a simple one-to-one conversion process. This problem can be avoided by attempting to operationalise the growth in human capital related to a particular vocational qualification (see e.g., Helberger, 1988). This study adopts a similar approach. Only the respondent's highest vocational qualification was considered, and the years estimated to represent the human capital growth resulting from this qualification were added to the years of education.

Training as a semi-skilled worker: +1 year

Apprenticeship, vocational school,

school for health care occupations: +1.5 years Master craftsman certificate: +3 years Vocational academy: +3 years Applied sciences/Bachelor's degree: +3 years University/Master's degree: +5 years Ph.D.: +8 years Other German qualification: +1.5 years

Other foreign qualification: +1.5 years

Helberger (1988)

Literature:

Education in years, mother

<u>Variable name</u> *mbilzeit*

<u>Variable label</u> Duration of school education and vocational training of mother in years, generated

Source variables mschul2; mberuf2

<u>Category / dataset</u> Education / individual-level data

<u>Prepared by</u> Bernhard Christoph

<u>Explanation</u> General description: see "Education in years"

When generating the parents' years of education and training variables, the values added for vocational qualifications differ from those used to construct the corresponding variable for the respondents because information on vocational education/training was collected in less detail for parents (especially for tertiary education).

The following values are assigned to particular courses of education/training:

Training as a semi-skilled worker: +1 year

Apprenticeship, vocational school,

Health care occupations: +1.5 years

Master craftsman certificate: +3 years

Vocational academy: +3 years

University, applied sciences: +3 years

University: +5 years

Other German qualification: +1.5 years

Other foreign qualification: +1.5 years

<u>Literature:</u> Helberger (1988)

Education in years, father

<u>Variable name</u> *vbilzeit*

<u>Variable label</u> Duration of school education and vocational training of father in years, generated

Source variables vschul2; vberuf2

<u>Category / dataset</u> Education / individual-level data

<u>Prepared by</u> Bernhard Christoph

<u>Explanation</u> General description: see Education in years (above).

When generating the parents' years of education and training variables, the values added for vocational qualifications differ from those used to construct the corresponding variable for the respondents because information on vocational education/training was collected in less detail for parents (especially for tertiary education).

The following values are assigned to particular courses of education/training:

Training as a semi-skilled worker: +1 year

Apprenticeship, vocational school,

Health care occupations: +1.5 years

Master craftsman certificate: +3 years

Vocational academy: +3 years

University, applied sciences: +3 years

University: +5 years

Other German qualification: +1.5 years

Other foreign qualification: +1.5 years

<u>Literature:</u> Helberger (1988)

CASMIN

Variable name casmin

<u>Variable label</u> Education classified acc. to CASMIN, updated version, generated

Source variables schul2; beruf2

<u>Category / dataset</u> Education / individual-level data

Prepared by Bernhard Christoph

Explanation The CASMIN educational classification was developed within the framework of the

CASMIN project (Comparative Analysis of Social Mobility in Industrial Nations) in order to compare academic and vocational qualifications internationally (König, Lüttinger & Müller,. 1987). An updated version is now available (Brauns & Steinmann, 1999). The procedures applied in the panel to recode qualifications according to the CASMIN classification, especially for problematic cases, follow the procedures described in Lechert, Schroedter and Lüttinger (2006) and Granato (2000). The slightly differing category values of the education variable in this dataset are considered. Details are presented in the table below. Cells containing valid CASMIN combinations are highlighted in light gray, whereas those containing missing values are dark

School Occup.	Not surv.	Pupil	Not asked	NA	No de- tails	Don't know	No qual.	Special needs school	Lower sec. school	Interm. Sec. school	Entrance qual. for uni. of app. Sci.	Upper sec. leav- ing cert.	Other Ger. qual.	Other foreign qual.
Not surv.	-10	-	-	-	-	-	-	-	-	-	-	-	-	-
Implaus. val- ue		-	-	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
Pupil	-	-5	·	-	-	-		-	-	-	•	-	-	-
Not asked	-	-	-4	-	-	-	-	-	-	-	-	-	-	-
NA	-	-	-	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
No details	-	-	-	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Don't know	-	-	-	-3	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
No qual.	-	-	-	-3	-2	-1	1a	1a	1b	2b	2c_gen	2c_gen	1b	1b
Semi-skilled	-	-	-	-3	-2	-1	1a	1a	1b	2b	2c_gen	2c_gen	1b	1b
Apprentice- ship	-	-		-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Voc. school	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Health care school	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Master craftsman	-	-		-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Vocational academy	-	-		3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a
UAS/ Bache- lor's	-	-	-	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a
Uni./Master's	-	-	-	3b	3b	3b	3b	3b	3b	3b	3b	3b	3b	3b
PhD	-	-	-	3b	3b	3b	3b	3b	3b	3b	3b	3b	3b	3b
Other Ger. qual.	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Other foreign qual.	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c

Literature:

Brauns et al. (1999); Granato (2000); König et al. (1987); Lechert et al. (2006)

MCASMIN

Variable name

Variable label

Source variables

Category / dataset

Prepared by

Explanation

mcasmin

Education of mother classified acc. to CASMIN, updated version, generated

mschul2; mberuf2

Education / individual-level data

Bernhard Christoph

General description: see CASMIN (above).

Because the education variable has different category values for respondents and their parents, the coding pattern for *mcasmin* and *vcasmin* differs slightly from the pattern used in *casmin*. The following table details the differences.

School	Not surv.	Personal inter- view missing	Parent un- known	Not asked	NA	No de- tails	Don't know	No qual.	Special needs school	Lower sec. school	Interm. Sec. school	En- trance qual. for uni. of app. Sci.	Upper sec. leaving cert.	Other Ger. qual.	Other foreign qual.
Occup.															
Not surv.	-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Implaus. value	-	-	-	-	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
Personal inter- view missing	-	-6	-	-	-		٠	•	-	٠			-	-	-
Parent unknown	-	-	-5	-	-	-	-	-	-	-	-	-	-	-	-
Not asked	-	-	-	-4	-	-	-	-	-	-	-	-	-	-	-
NA	-	-	-	-	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
No details	-	-	-	-	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Don't know	-	-	-	-	-3	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
No qual.	-	-	-	-	-3	-2	-1	1a	1a	1b	2b	2c_gen	2c_gen	1b	1b
Semi-skilled	-	-	-	-	-3	-2	-1	1a	1a	1b	2b	2c_gen	2c_gen	1b	1b
Apprentice-ship	-	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Master craftsman	-	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Vocational academy	-	-	-	-	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a
UAS	-	-	-	-	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a
Uni.	-	-	-	-	3b	3b	3b	3b	3b	3b	3b	3b	3b	3b	3b
Other Ger. qual.	-	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Other foreign qual.	-	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c

Literature:

Brauns et al. (1999); Granato (2000); König et al. (1987); Lechert et al. (2006)

VCASMIN

Variable name

vcasmin

Variable label

Education of father classified acc. to CASMIN, updated version, generated

Source variables

vschul2; vberuf2

Category / dataset

Education / individual-level data

Prepared by

Bernhard Christoph

Explanation

General description: see CASMIN (above).

Because the education variable has different category values for respondents and their parents, the coding pattern for *mcasmin* and *vcasmin* differs slightly from the pattern used in *casmin*. The following table details the differences.

School Occup.	Not surv.	Personal inter- view missing	Parent un- known	Not asked	NA	No de- tails	Don't know	No qual.	Special needs school	Lower sec. school	Interm. Sec. school	En- trance qual. for uni. of app. Sci.	Upper sec. leaving cert.	Other Ger. qual.	Other foreign qual.
Сссар.															
Not surv.	-10		-		-	-	-			-	-			-	-
Implaus. value	-	-	-	-	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
Personal inter- view missing	-	-6	-	-					-				-	-	-
Parent unknown	-	•	-5	-	-	-	-	-	-	-	-	-	-	-	-
Not asked	-	-	-	-4	-	-	-	-	-	-	-	-	-	-	-
NA	-	-	-	-	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
No details	-	-	-	-	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Don't know	-	-	-	-	-3	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
No qual.	-	-	-	-	-3	-2	-1	1a	1a	1b	2b	2c_gen	2c_gen	1b	1b
Semi-skilled	-	-	-	-	-3	-2	-1	1a	1a	1b	2b	2c_gen	2c_gen	1b	1b
Apprenticeship	-	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Master craftsman	-	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Vocational academy	-	-	-	-	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a
UAS	-	-	-	-	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a
Uni.	-	-	-	-	3b	3b	3b	3b	3b	3b	3b	3b	3b	3b	3b
Other Ger. qual.	-	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c
Other foreign qual.	-	-	-	-	-3	-2	-1	1c	1c	1c	2a	2c_voc	2c_voc	1c	1c

Literature:

Brauns et al. (1999); Granato (2000); König et al. (1987); Lechert et al. (2006)

ISCED 97

Variable name

Variable label

Source variables Category / dataset

Prepared by

Explanation

isced97

Education classified acc. to isced97, updated version, generated

schul2: beruf2

Education / individual-level data

Bernhard Christoph

The ISCED-97, (International Standard Classification of Education) developed by the OECD (OECD 1999; for an outline, see also BMBF, 2003), is an education classification alternative to CASMIN. Note that the coding for the ISCED-97 classification includes categories that cannot reasonably be assigned to these data. The ISCED values "0" (pre-primary education/kindergarten) and "1" (primary education) do not apply because the respondents are at least 15 years old. Instead, a separate group was created for individuals with an education below ISCED level 2 (ISCED 2 = lower or intermediate secondary school certificate). Therefore, only ISCED levels 2 to 6 are coded in this dataset.

Coding details are shown in the table below. Cells containing valid combinations according to ISCED are highlighted in light grey, those containing defined missing values are dark grey.

Schoo	Not surv.	Pupil	Not asked	NA	No details	Don't know	No qual.	Special needs school	Lower sec. school	Interm. Sec. school	Entrance qual. for uni. of app. Sci.	Upper sec. leav- ing cert.	Other Ger. qual.	Other foreign qual.
Occup.														
Not surv.	-10													
Implaus. value					-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
Pupil		-5												
Not asked			-4											
NA				-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
No details				-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Don't know				-3	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
No qual.				-3	-2	-1	1	1	2	2	3a	3a	2	2
Semi-skilled				-3	-2	-1	2	2	2	2	3a	3a	2	2
Apprenticeship				-3	-2	-1	3b	3b	3b	3b	4 a	4a	3b	3b
Voc. school				-3	-2	-1	3b	3b	3b	3b	4a	4a	3b	3b
Health care school				5b	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b
Master craftsman				5b	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b
Vocational academy				5b	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b
UAS/Bachelor's				5a	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a
Uni./Master's				5a	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a
PhD				6	6	6	6	6	6	6	6	6	6	6
Other Ger. qual.				-3	-2	-1	2	2	2	2	3a	3a	2	2
Other foreign qual.				-3	-2	-1	2	2	2	2	3a	3a	2	2

Literature:

BMBF (2003); OECD (1999)

MISCED 97

Variable name

Variable label

Source variables

Category / dataset

Prepared by

Explanation

misced97

Education of mother classified acc. to isced97, updated version, generated

mschul2; mberuf2

Education / individual-level data

Bernhard Christoph

For the theoretical background and variable generation details, see ISCED-97. In contrast to the ISCED-97 coding applied to respondent education, it is not possible to generate 6 ISCED levels for parents because data on the corresponding qualifications (i.e., Ph.D. or equivalent) were not collected for parents. Therefore, only ISCED levels 2 to 5 are coded in this dataset. The following table provides the coding details.

School	Not surv.	Personal inter- view missing	Parent un- known	Not asked	NA	No de- tails	Don't know	No qual.	Special needs school	Lower sec. school	Interm. Sec. school	En- trance qual. for uni. of app. Sci.	Upper sec. leaving cert.	Other Ger. qual.	Other foreign qual.
Occup.															
Not surv.	-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Implaus. value	-	-	-	-	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
Personal inter- view missing	-	-6	-	-	-	-	-	-	-	-	-	-	-	-	-
Parent unknown	-	-	-5			-	-	-	-	-	-	-	-	-	-
Not asked	-	-	-	-4	-	-	-	-	-	-	-	-	-	-	-
NA	-	-	-	-	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
No details	-	-	-	-	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Don't know	-	-	-	-	-3	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
No qual.	-	-	-	-	-3	-2	-1	1	1	2	2	3a	3a	2	2
Semi-skilled	-	-	-	-	-3	-2	-1	2	2	2	2	3a	3a	2	2
Apprenticeship	-	-	-	-	-3	-2	-1	3b	3b	3b	3b	4a	4a	3b	3b
Master craftsman	-	-	-	-	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b
Vocational academy	-	-	-	-	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b
UAS	-	-	-	-	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a
Uni.	-	-	-	-	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a
Other Ger. qual.	-	-	-	-	-3	-2	-1	2	2	2	2	3a	3a	2	2
Other foreign qual.	-	-	-	-	-3	-2	-1	2	2	2	2	3a	3a	2	2

Literature:

BMBF (2003); OECD (1999)

VISCED 97

Variable name

Variable label

Source variables

Category / dataset

Prepared by

Explanation

visced97

Education of father classified acc. to isced97, updated version, generated

vschul2; vberuf2

Education / individual-level data

Bernhard Christoph

For the theoretical background and variable generation details, see ISCED-97. In contrast to the ISCED-97 coding applied to respondent education, it is not possible to generate 6 ISCED levels for parents because data on the corresponding qualifications (i.e., Ph.D. or equivalent) were not collected for parents. Therefore, only ISCED levels 2 through 5 are coded in this dataset. The following table provides the coding details.

School	Not surv.	Personal interview missing	Parent unknown	Not asked	NA	No de- tails	Don't know	No qual.	Special needs school	Lower sec. school	Interm. Sec. school	Entrance qual. for uni. of app. Sci.	Upper sec. leaving cert.	Other Ger. qual.	Other foreign qual.
Occup.															
Not surv.	-10	-		-			-	-		-	-	-		-	-
Implaus. value	-	-	-	-	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8	-8
Personal interview missing	-	-6	-	-	-	-	-	-	-	-	-	-	-	-	-
Parent unknown	-	-	-5	-	-	-	-	-	-	-	-	-	-	-	-
Not asked	-	-	-	-4	-	-	-	-	-	-	-	-	-	-	-
NA	-	-	-	-	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3	-3
No details	-	-	-	-	-3	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2
Don't know	-	-	-	-	-3	-2	-1	-1	-1	-1	-1	-1	-1	-1	-1
No qual.	-	-	-	-	-3	-2	-1	1	1	2	2	3a	3a	2	2
Semi-skilled	-	-	-	-	-3	-2	-1	2	2	2	2	3a	3a	2	2
Apprenticeship	-	-	-	-	-3	-2	-1	3b	3b	3b	3b	4a	4a	3b	3b
Master craftsman	-	-	-	-	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b
Vocational academy	-	-	-	-	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b	5b
UAS	-	-	-	-	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a
Uni.	-	-	-	-	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a	5a
Other Ger. qual.	-	-	-	-	-3	-2	-1	2	2	2	2	3a	3a	2	2
Other foreign qual.	-	-	-	-	-3	-2	-1	2	2	2	2	3a	3a	2	2

Literature:

BMBF (2003); OECD (1999)

International Standard Classification of Occupations 1988 (ISCO-88); ZUMA coding

Generated	Employment	Variable name	Source variables				
	current	isco88	ET2500				
	Spell data (bio_spells)	isco88	ET2500				
	first	iscoeewt	ET2500, PET1280, PET3950				
	last	iscolewt	ET2500, PET1280				
	of father	visco	PSH0800				
	of mother	misco	PSH0700				
Variable label	Current empl.: ISCO-88 (ZL	JMA coding), generated					
	Spell data (bio_spells): ISC	O-88 (ZUMA coding), genera	ted				
	First empl.: ISCO-88 (ZUMA coding), first employment, generated						
	Last empl.: ISCO 88 (ZUMA coding), last employment, generated						
	Father: ISCO-88 (ZUMA coding) of the father, generated						
	Mother: ISCO-88 (ZUMA co	oding) of the mother, generate	ed				
Category / dataset	Occupation / individual-leve	l data					
Contact person	Bernhard Christoph						
Explanation	The International Standard Classification of Occupations (ISCO) was developed by the International Labour Organization (ILO) to allow international comparison. An advantage of the ISCO-88 is that in addition to the employment, the qualification level generally necessary to perform the job is also considered when assigning an occupation to a particular occupational code. This constitutes a major difference from the Classification of Occupations provided by the German Federal Statistical Office (KIdB), which is also provided in this dataset.						
<u>Literature:</u>	ILO (1990)						

Classification of Occupations 1992 (KldB92)

		-	·				
Generated	<u>Employment</u>	Variable name	Source variables				
	current	kldb_it	ET2500				
	Spell data (bio_spells)	kldb	ET2500				
	first	kldbeewt	ET2500, PET1280, PET3950				
	last	kldblewt	ET2500, PET1280				
	of father	vkldb	PSH0800				
	of mother	mkldb	PSH0700				
Variable label	Current empl.: Classification	of Occupations 1992, currer	nt employment				
	Spell data (bio_spells): Clas	sification of Occupations 199	2, generated				
	First empl.: Classification of Occup. 1992, first empl., gen.						
	Last empl.: Classification of Occupations 1992, last empl., gen.						
	Father: Classification of Occupations 1992 of father, generated						
	Mother: Classification of Occ	cupations 1992 of mother, ge	enerated				
Category / dataset	Occupation / individual-level	data					
Contact person	Bernhard Christoph						
<u>Explanation</u>	The KldB92 is the current version of the Classification of Occupations published by the German Federal Statistical Office (Statistisches Bundesamt). This classification system was developed to match the German occupational structure, which is based solely on employment.						
<u>Literature:</u>	StBA (1992)						
Explanation	the German Federal Statistic	ersion of the Classification of cal Office (Statistisches Bund atch the German occupation	desamt). This classification				

Erikson, Goldthorpe and Portocarrero (EGP) Class Scheme

		ads belieffe					
<u>Generated</u>	<u>Employment</u>	Variable name	Source variables				
	current	egp	isco88, stib				
	Spell data (bio_spells)	egp	isco88, stib				
	first	egpeewt	iscoeewt, stibeewt				
	last	egplewt	iscolewt, stiblewt				
	of father	vegp	visco, vstib				
	of mother	megp	misco, mstib				
Variable label	Current empl.: Class schem rent occupation, generated	ne acc. to Erikson, Goldthorpe	e & Portocarrero (EGP), cur-				
	Spell data (bio_spells): Clas (EGP), gen.	ss scheme acc. to Erikson, G	oldthorpe & Portocarrero				
	First empl.: Class scheme acc. to Erikson, Goldthorpe & Portocarrero (EGP), first employment, gen.						
	Last empl.: Class scheme a employment, gen.	acc. to Erikson, Goldthorpe &	Portocarrero (EGP), last				
	Father: Class scheme acc. to Erikson, Goldthorpe & Portocarrero (EGP), occupation of father, gen.						
	Mother: Class scheme acc. to Erikson, Goldthorpe & Portocarrero (EGP), occupation of mother, gen.						
Category / dataset	socio-economic position / ir	ndividual-level data					
Prepared by	Bernhard Christoph						
Explanation	-	ed by Erikson, Goldthorpe and Goldthorpe, 1992) is among th class.	·				
	For this variable, data are coded by ISCO-88 occupational classification and occupational status. The coding procedure is based on an earlier approach elaborated by Christoph et al. (2005), who provide a detailed description of the procedure. Here, in contrast, unpaid family workers were not coded as self-employed but as individuals in dependent employment consistent with the coding applied in the European Socio-Economic Classification (ESeC), which is described in the next section.						
	One difference between the EGP coding applied here and the ESeC coding is that in the EGP coding procedure, cases are "missing" (-7) in which the occupational activity seemed incompatible with occupational status (e.g., "directors and chief executives" [ISCO=1210] who reported that they were "employees performing simple duties" [StiB=51]). To ensure compatibility with the standardised coding procedure we adopted, we did not apply a comparable revision procedure using the EseC codes.						
<u>Literature:</u>	Christoph (2005); Erikson a al. (1979).	nd Goldthorpe (1992); Eriksc	n et al. (1982); Erikson et				

European Socio-economic Classification (ESeC)

Congrated	Employment	Variable name	Source variables					
<u>Generated</u>		Variable name	Source variables					
	current	esec	isco88, stib, PET2000, PET2700					
	Spell data (bio_spells)	esec	isco88, stib, ET1100, ET1101, ET1102, ET1300, ET1301, ET1302,					
	first	eseceewt	iscoeewt, stibeewt, PET1261					
	last	eseclewt	iscolewt, stiblewt, PET3801					
	of father	vesec	visco, vstib, PSH0670					
	of mother	mesec	misco, mstib, PSH0370					
<u>Variable label</u>	Current empl.: European Segen.	ocio-economic Classification	(ESeC), current occupation,					
	Spell data (bio_spells): European Socio-economic Classification (ESeC), gen.							
	First empl.: European Socio-economic Classification (ESeC), first employment, gen.							
	Last empl.: European Socio-economic Classification (ESeC), last employment, gen.							
	Father: European Socio-economic Classification (ESeC), occupation of father, gen.							
	Mother: European Socio-economic Classification (ESeC), occupation of mother, gen.							
Category / dataset	socio-economic position / ir	ndividual-level data						
Prepared by	Bernhard Christoph							
Explanation	The European Socio-economic Classification is largely based on the EGP class scheme. Unlike the latter, great importance was attached to international comparability of the operationalisation and validation of the classification (for a general description, see Rose & Harrison, 2007; for Germany, see Müller et al. 2006, 2007). The Stata do-file required to generate the ESeC was kindly provided by Heike Wirth from GESIS-ZUMA (Fischer & Wirth 2007). We simply adjusted the file to meet the requirements of this study. This do-file, originally written in standard SPSS syntax by Harrison and Rose (2006) as a standard program to generate the ESeC, was converted into Stata.							
<u>Literature:</u>	Fischer and Wirth (2007); Hand Harrison (2007)	Harrison Rose (2006); Müller e	et al. (2006, 2007); Rose					

Magnitude Prestige Scale (MPS)

<u>Generated</u>	<u>Employment</u>	Variable name	Source variables				
	current	mps	isco88				
	Spell data (bio_spells)	mps	isco88				
	first	mpseewt	iscoeewt				
	last	mpslewt	iscolewt				
	of father	vmps	visco				
	of mother	mmps	misco				
Variable label	Current empl.: Magnitude P	restige Scale, current occupa	ation, gen.				
	Spell data (bio_spells): Magnitude Prestige Scale, generated						
	First empl.: Magnitude Prestige Scale, first employment, gen.						
	Last empl.: Magnitude Prestige Scale, last employment, gen.						
	Father: Magnitude Prestige Scale, occupation of father, gen.						
	Mother: Magnitude Prestige Scale, occupation of mother, gen.						
Category / dataset	socio-economic position / in	dividual-level data					
Contact person	Bernhard Christoph						
Explanation	The MPS (Wegener, 1985, 1988) is the only Germany-specific instrument available to operationalize social prestige based on detailed occupation information. The scale was originally developed for the 1968 version of the International Standard Classification of Occupations (ISCO-68). Because occupation codes in this study were based on the more recent ISCO-88 classification and the Classification of Occupations (KldB) developed by the Federal Statistical Office, a variant of the scale adapted to the ISCO-88 was used (Christoph 2005). Infas merged the data as part of the occupational coding procedure.						
<u>Literature:</u>	Christoph (2005); Wegener	(1985, 1988)					

Standard International Occupational Prestige Scale (SIOPS/Treiman Scale)

Generated	Employment	Variable name	Source variables				
	current	siops	isco88				
	Spell data (bio_spells)	siops	isco88				
	first	siopseewt	iscoeewt				
	last	siopslewt	iscolewt				
	of father	vsiops	visco				
	of mother	msiops	misco				
Variable label	Current empl.: Standard Int tion, gen.	ernational Occupational Pres	tige Scale, current occupa-				
	Spell data (bio_spells): Standard International Occupational Prestige Scale, generated						
	First empl.: Standard International Occupational Prestige Scale, first employment, gen.						
	Last empl.: Standard International Occupational Prestige Scale, last employment, gen.						
	Father: Standard International Occupational Prestige Scale, occupation of father, gen.						
	Mother: Standard International Occupational Prestige Scale, occupation of mother, gen.						
Category / dataset	socio-economic position / ir	ndividual-level data					
Contact person	Bernhard Christoph						
Explanation	The Treiman Prestige Scale, which was originally constructed by Treiman (1977) for ISCO-68, is the first and only prestige scale available for international comparative research on occupations. Since its adaptation to the ISCO-88 (Ganzeboom & Treiman, 1996, 2003), the scale has commonly been called the "Standard International Occupational Prestige Scale". Infas merged the data as part of the occupational coding procedure.						
<u>Literature:</u>	Ganzeboom and Treiman (1996, 2003); Treiman (1977)					

International Socio-Economic Index (ISEI)

<u>Generated</u>	<u>Employment</u>	Variable name	Source variables				
	current	isei	isco88				
	Spell data (bio_spells)	isei	isco88				
	first	iseieewt	iscoeewt				
	last	iseilewt	iscolewt				
	of father	visei	visco				
	of mother	misei	misco				
Variable label	Current empl.: International	Socio-Economic Index, curre	ent employment, gen.				
	Spell data (bio_spells): Inter	rnational Socio-Economic Ind	ex, generated				
	First empl.: International Socio-Economic Index, first employment, gen.						
	Last empl.: International Socio-Economic Index, last employment, gen.						
	Father: International Socio-Economic Index, occupation of father, gen.						
	Mother: International Socio-Economic Index, occupation of mother, gen.						
Category / dataset	socio-economic position / in	dividual-level data					
Contact person	Bernhard Christoph						
Explanation	The ISEI is among the most common indices of this kind, in part, due to the fact that unlike most other SEIs, the ISEI is based on an original theoretical concept that considers the occupation and its socio-economic status as an intervening variable in the relationship between education and income. The ISEI was developed for the ISCO-68 (Ganzeboom, De Graaf & Treiman, 1992); it was later adapted to the ISCO-88 (Ganzeboom & Treiman, 1996, 2003). Infas merged the data as part of the occupational coding procedure.						
<u>Literature:</u>	Ganzeboom et al. (1992); G	anzeboom and Treiman (199	96, 2003)				

Classification of Economic Activities 2003 (Klassifikation der Wirtschaftszweige 2003 (WZ2003))

Generated Employment Variable name Source variables

current branche ET2600

Spell data (bio_spells) branche ET2600

<u>Variable label</u> Current empl.: Current activity: economic sector/industry (WZ2003)

Spell data (bio_spells): economic sector/industry (WZ2003), generated

<u>Category / dataset</u> socio-economic position / individual-level data

Contact person Bernhard Christoph

Explanation The information obtained from the open-ended survey question about the sec-

tor/industry in which the respondent is employed was coded using the 2-digit Classification of Economic Activities of the Federal Statistical Office (WZ2003) code. At the two-digit level, this classification largely corresponds to the European Nomenclature générale des Activités économiques dans les Communautés Européennes

(NACE) in revision 1.1.

Literature: StaBA (2002); EG (2002)

Leisure activities pursued and desired by young people

<u>Variable name</u> *freiz1, freiz2, freiz3, frwunsch*

<u>Variable label</u> freiz1: leisure time activity 1, pursued

freiz2: leisure time activity 2, pursued freiz3: leisure time activity 3, pursued frwunsch: leisure time activity, desired

Source variables PA1100 (for freiz1-freiz3); PA1200 (for frwunsch)

<u>Category / dataset</u> leisure time / individual-level data

Prepared by Johanna Eckert (DJI), Arne Bethmann, Claudia Wenzig

Explanation

Explanation:

The variables freiz1, freiz2, freiz3 and frwunsch are based on newly developed categories for youth leisure activities. This scheme originates in the three most popular (PA1100) and desired (PA1200) leisure activities obtained through open-ended questions. The most popular leisure activities were converted into three individual variables according to the question text. Only one desired leisure activity was considered. Additional responses were not included in the coding.

The scheme was developed inductively based on corrected information. To achieve comparability among waves, the new scheme includes all leisure activities that were asked in restricted questions during previous waves. Furthermore, the scheme is designed to allow expansion, if necessary, over subsequent waves with new (sub)categories.

The scheme includes not only 16 main categories but also categories for no leisure activities and information that could not be assigned. The ranking of the 16 main categories results from the frequency with which they were mentioned. The main categories can be differentiated into 77 subcategories.

	Main category / variable characteristic	Number of subcategories
1000	Sports and exercise	31
2000	Spending time with family and friends	4
3000	Computer, games and communication	5
4000	Making / listening to music	6
5000	Reading	-
6000	Culture, cinema, television and events	8
7000	Creative hobbies, crafts, cooking and baking	11
8000	Going out, partying, nightlife	3
9000	Hanging out, relaxing	-
10000	Shopping	-
11000	Traveling, trips, tours and being mobile	3
12000	Spending time with pets	-
13000	Volunteer work	4
14000	Learning and education	-
15000	Games and mental exercise	2
16000	Side job	-
99998	No leisure activity	-
99999	Information cannot be assigned	-

Literature:

Johanna Eckert, Arne Bethmann, Claudia Wenzig (planned): Manual coding "Pursued and desired leisure time activities by young people". PASS wave 5 (2011).

Household or benefit unit level

Equivalised household income, previous OECD weighting

<u>Variable name</u> oecdinca

<u>Variable label</u> equivalised household income, old OECD weighting (rounded)

Source variables HD0200a-HD0200o; HA0100; hhincome

<u>Category / dataset</u> socio-economic position / household-level data

<u>Prepared by</u> Bernhard Christoph

<u>Explanation</u> Equivalised household income considers the savings achievable through joint

housekeeping in multi-individual households compared to single households. The per-capita income of the household is not divided by the actual number of individuals but by a divisor, which is usually less than this figure, and is calculated based on

the assumed needs of household members (equivalised household size).

According to the previous OECD scale, only the first household member (15 or older) is assigned a weighting factor of 1.0. Household members at least 15 years of age are assigned a weighting factor of 0.7, and children up to age 14 are assigned a

weighting factor of 0.5 to calculate equivalised household size.

<u>Literature:</u> Hauser (1996); OECD (1982)

Equivalised household income, modified OECD weighting

<u>Variable name</u> oecdincn

<u>Variable label</u> equivalised household income, modified OECD weighting (rounded) .

Source variables HD0200a-HD0200o; HA0100; hhincome

<u>Category / dataset</u> socio-economic position / household-level data

<u>Prepared by</u> Bernhard Christoph

Explanation General description: see "Equivalised household income, previous OECD weighting

(above).

The modified OECD equivalence scale assumes a weighting factor of 1.0 only for the first household member (15 or older). Household members at least 15 years old are assigned a weighting factor of 0.5, and children up to age 14 are assigned a weighting factor of 0.3 to calculate household size. For more information on the

modified OECD scale, see Hagenaars, de Vos, and Zaidi (1994).

<u>Literature:</u> Hagenaars et al. (1994)

Deprivation index, unweighted

Variable name depindug2

<u>Variable label</u> All waves: deprivation index, unweighted (item total: 23).

Source variables HLS0100a-HLS0400a; HLS0100b-HLS0400b; HLS0600a-HLS1200a; HLS0600b-

HLS1200b; HLS1400a-HLS2500a; HLS1400b-HLS2500b;

<u>Category / dataset</u> material situation / household-level data

Prepared by Bernhard Christoph

Explanation

Following Ringen (1988), poverty researchers usually distinguish between direct and indirect measures of poverty. Indirect measurement focuses on the resources available to attain a particular standard of living, especially (equivalised household) income. This method is also called the resource-based approach to measuring

poverty.

In contrast, direct measurement attempts to record the household's ownership of goods and to determine the extent to which the households cannot afford certain goods or activities that are considered relevant. This method is also called the dep-

rivation approach (see, e.g., Halleröd 1995).

Previous scientific research suggests that the population classified as poor by the resource-based approach is not always identical to that identified by the deprivation approach. To define with precision who is to be considered poor, combining measures of resource poverty and deprivation is often been suggested—i.e., to classify as poor only those individuals identified by both approaches (see Halleröd

1995; Nolan & Whelan 1996; Andreß & Lipsmeier 2001).

television) from being misinterpreted as a reduced standard of living.

The deprivation index is based on a list of 23 goods or activities. The surveyed households are asked to indicate whether they possessed these goods or participated in the activities mentioned. The unweighted index simply adds the number of items that respondents indicated they did not possess or in which they did not participate. However, only items that are missing for financial reasons are counted to prevent consumer preferences (e.g., a household choosing not to own a car or

Additionally, an item was only accepted as missing for financial reasons if explicitly confirmed in the answers to both questions. "Don't know" or "details refused" answers were considered available goods or missing for a non-financial reason. This assumption does not apply to all cases. Alternatively, an index value for households that failed to answer a question for (at least) one particular good could be excluded (through listwise deletion). Of the 23 goods and activities surveyed, however, this method would quickly lead to a large number of missing index values. Therefore, the first method described was selected. Nevertheless, compared to the listwise deletion procedure, there is a risk that the number of goods missing for financial reasons is underestimated by this method.

For waves 1 through 4, the variable *depindug* provides a version of the unweighted deprivation index based on 26 items, i.e., adding to the items mentioned above HLS0500*, HLS1300* and HLS2600*. These three items have not been asked since wave 5. Thus, *depindug2* was newly integrated into the dataset and has been generated retroactively since wave 1.

Andreß and Lipsmeier (2001); Halleröd (1995); Nolan and Whelan (1996); Ringen (1988)

Deprivation Index, weighted

Variable name depindg2

<u>Variable label</u> All waves: deprivation index, unweighted (item total until W7: 11,08, since wave 8:

10,59)

Source variables HLS0100a-HLS0400a; HLS0100b-HLS0400b; HLS0600a-HLS1200a; HLS0600b-

HLS1200b; HLS1400a-HLS2500a; HLS1400b-HLS2500b; PLS0100-PLS0400;

PLS0600-PLS1200; PLS1400-PLS2500;

<u>Category / dataset</u> material situation / household-level data

<u>Prepared by</u> Bernhard Christoph

Explanation For a general description: see deprivation index, unweighted (above).

Unweighted indices, such as the one described above, are often criticised for assigning all items included identical weightings. For example, the difference in asking whether a dwelling has an indoor toilet or whether there is a VCR/DVD player in the household immediately reveals the vast difference in the reduction of household's standard of living caused by the lack of an item. It therefore seems reasonable to weight the items. However, empirical research indicates that in most cases, weighted and unweighted index variants do not yield significantly different results (see Lipsmeier, 1999).

For this survey, we weighted items according to the proportion of respondents who considered a particular item as necessary. We selected this procedure not only because it is conceptually convincing and commonly used (applied by Halleröd 1995, for example) but also because it can be implemented without unreasonable costs. The deprivation weightings determined for the individual questionnaire items are assumed highly stable over time, and these items only need to be administered once or in long intervals. Moreover, the large PASS sample allowed us to split the sample into several randomly selected subsamples, each of which classified only some items.

Alternative weighting methods, such as restricting the indices to items that are considered necessary by a minimum proportion of the respondents (e.g., Andreß & Lipsmeier 1995, Andreß et al. 1996) or theoretically restricting the indices to a few fundamental items (e.g., Nolan & Whelan 1996), were not utilised in this survey but can be generated, if necessary, from the data provided. A discussion of the different methods of index weighting can be found in Andreß and Lipsmeier (2001, esp. p. 28 ff.).

For waves 1 through 4, the variable *depindg* provides a version of the weighted deprivation index based on 26 rather than 23 items, i.e., in addition to the items mentioned above, it includes the following items: HLS0500*; HLS1300* and HLS2600*; and PLS0500, PLS1300 and PLS2600. These three HLS items have not been asked since wave 5. Thus, *depindg2* is newly integrated into the dataset and has been generated retroactively since wave 1.

The questions about the necessity of the deprivation index were surveyed again in wave 8. The weighting of the deprivation index for waves 1 through 7 bases on the data of wave 1 and since wave 8 on the data of wave 8.

Andreß and Lipsmeier (1995, 2001); Andreß et al. (1996); Halleröd (1995); Lipsmeier (1999); Nolan and Whelan (1996)

Household typology

Variable name

Variable label

Source variables

Category / dataset

Prepared by

Explanation

hhtyp

Household type, generated

Household information on age and relationships between household members.

Household structure / household data

Daniel Gebhardt

Various household typologies exist (see, e.g., Lengerer, Bohr & Jansen, 2005 for the Microcensus household typology; Porst (1984) and Beckmann & Trometer 1991 for the ALLBUS typology; and Frick, Göbel & Krause (n.d.) for the SOEP). The household typology used in PASS follows the latter typology. The decisive differentiation criteria are existing partnerships, number and age of children and existing generational relationships. Whereas the SOEP typology is based on the relationship of the household members to the head of the household, PASS uses information on the relationships among all household members. The PASS typology includes the ages of household members as indicated in the household interview and household size.

Definition of relationships for generating the household type:

- <u>Couples</u>: married couples, registered partnerships, nonmarried partnerships and partnerships whose status is not specified (missing value for the follow-up question about the type of partnership).
- <u>Child of an individual</u>: biological child, stepchild, adopted/foster child or child whose status
 is not specified (missing value for the follow-up question about type of relationship to the
 child).
- <u>Parent of an individual</u>: biological parent, stepparent, adoptive/foster parent or parent whose status is not specified (missing value in follow-up question about type of parenthood).

Definition of household type:

- One-person household: A household consisting of only one individual.
- <u>Couple without children</u>: A household consisting of two individuals living as a couple.
- One-parent household: A household consisting solely of one parent and his/her children.
 No restrictions apply to children's ages.
- Couple with children under the age of 16: A household consisting of two individuals living as a couple and their respective and/or mutual children. All of the children are younger than 16.
- <u>Couple with children aged 16 or over</u>: A household consisting of two individuals living as a couple and their respective and/or mutual children. All of the children are aged 16 or over.
- <u>Couple with children both under and over 16</u>: A household consisting of two individuals living as a couple and their respective and/or mutual children. Some children living in the household are younger than 16 and others are older than 16.
- <u>Multigeneration household</u>: A household consisting of members of at least three generations in linear succession. The core of the household is multigenerational, i.e., at least one individual in the household is both a child and a parent of another member of the household. Other people living in the household include parents, children, siblings, the central member's partner or a partner's siblings.
- Other household: A household that could not be assigned to another household type.
- Generation not possible (missing values): All households with at least one missing value (-1, -2, -4) or implausible value (-8) in the main category of a relationship or age variable (except for households with three or fewer members in unambiguous relationship constellations for which the household type was generated even if ages were missing).

Beckmann and Trometer (1991); Frick et al. (n.d.); Lengerer et al. (2005); Porst (1984)

Wave 8 benefit unit ID

Variable name

Variable label

Benefit unit ID in wave 8 (2014)

Source variables

Category / dataset

Prepared by

Explanation

Household information on age and relationships between household members

Benefit unit / person register

Gerrit Müller

banr8

The bgnr8 variable is created at the individual level. It assigns an identification number to each household member that indicates the individual's relationship to a particular benefit unit. Consequently, household members with the same identification number constitute a benefit unit. The bgnr8 variable is composed of the known household number and a two-digit indicator to identify the benefit unit within the household.

The identification of a household member's relationship to a benefit unit is based solely on information about the relationships between household members from the household grid along with the ages obtained from the household interview. Therefore, the benefit units identified in this way are considered synthetic benefit units. The identification process does not consider information about actual benefits received, individual members' ability to work or qualification status, but it does identify groups of individuals in the same household who are or would be considered benefit units in jointly receiving benefits according to the provisions of Book II of the German Social Code in the event that such benefits are needed. This artificial allocation procedure is necessary because information about the existence of a benefit unit and the identification of individuals affiliated with that unit cannot be collected directly in the context of an interview.

The allocation of an individual to a benefit unit is based on the latest version of the German Social Code, Book II, Section 7, Subsection 3 (last amended on 21 March 2013). Each individual ages 25-65 constitutes a separate benefit unit unless he or she is living in a partnership and/or has a child/children younger than 25 who has/have no partner/children of their own. In the latter case, the benefit unit consists of the individual, his/her partner and child(ren). If two individuals live in the same household with a mutual child but do not indicate that they are living in a partnership, a partnership is nevertheless assumed to exist according to Section 7, Subsection 3a. The corresponding individuals and their child(ren) are assigned to the same benefit unit. Individuals who are between the ages of 15 and 25 are generally assigned to their parents unless they are already living with a partner (or a child of their own) in a joint household. Individuals between the ages of 15 and 25 who live without their parents, partner or children constitute a separate benefit unit. Individuals older than 65 are not covered by Book II of the German Social Code and are therefore not considered members of a benefit unit (coded 0) unless they live with a partner who is under 65 (or a child under 25). Likewise, children who have not reached age 15 who live in a household without their parents are not considered members of a benefit unit (code 0) because they are covered by the provisions of German Social Code Book XII. Benefit units were not assigned to households with missing information on relationships or the age of certain household members. Instead, all members of these households were assigned code 99. By approximation, such households are interpreted as households consisting of only one benefit unit. German Social Code Book II - basic security for job-seekers (Sozialgesetzbuch, Zweites Buch - Grundsicherung für Arbeitssuchende (SGB II))

Wave 8 benefit unit typology

<u>Variable name</u> bgtyp8

Variable label Type of benefit unit in wave 8

Source variables Household information on age and relationships between household members.

Category / dataset Benefit unit / person register

<u>Prepared by</u> Gerrit Müller

Explanation

The benefit unit typology is based on the same concept as the synthetic benefit unit used for variable barrs. Until age 25, children are considered members of their par-

used for variable *bgnr8*. Until age 25, children are considered members of their parents' benefit unit unless they themselves have a partner or child. BA statistics typologies are often still established based on reaching legal age (the 18th birthday). For example, according to our typology, households in which the youngest child is between 18 and 24 years old and that are classified as one-parent benefit units are considered single households in BA statistics. This difference must be noted when

comparing PASS data with figures from the official statistics.

Code 0, no benefit unit, was assigned to households in which one or more member(s) were not covered by Social Code Book II (see also code 0 for *bgnr8*). Code 5, generation impossible (missing values), was assigned to households with missing information on relationships or the ages of individual household members (see code

99 for bgnr8).

<u>Literature:</u> -

Benefit unit receiving Unemployment Benefit II on the wave 8 sampling date

Variable name bgbezs8

<u>Variable label</u> Benefit unit in receipt of UB II on the sampling date in wave 8 (2014)

Source variables HA0250*, HA0300, AL20100, AL20200, AL20300, AL20400, AL20606, AL20706*,

HA0400, sample, hnr, bgnr8, hhgr

<u>Category / dataset</u> Benefit unit / person register

<u>Prepared by</u> Mark Trappmann

Explanation For each benefit unit that was identified according to the procedure described for

variable bgnr8, this variable indicates whether the benefit unit was actually receiving

Unemployment Benefit II on the sampling date of wave 8.

<u>Literature:</u> -

Benefit unit receiving Unemployment Benefit II on the wave 8 survey date

<u>Variable name</u> bgbezb8

<u>Variable label</u>

Source variables

Benefit unit in receipt of UB II on the survey date in wave 8 (2014)

AL20607, AL20707*, zensiert (alg2_spells), sample, hhgr, bgnr8

<u>Category / dataset</u> Benefit unit / person register

Prepared by Daniel Gebhardt

Explanation For each benefit unit that was identified according to the procedure described for

variable bgnr8, this variable indicates whether the benefit unit was actually receiving

Unemployment Benefit II on the wave 8 survey date.

<u>Literature:</u> -

Number of benefit units within the household

<u>Variable name</u> anzbg

<u>Variable label</u> Number of synthetic benefit units in the HH, generated

Source variables bgnr8, hnr

Category / dataset Benefit unit / household dataset

Prepared by Daniel Gebhardt

Explanation This variable indicates the number of benefit units existing in the household. The

benefit units were identified according to the procedure to generate the variable

bgnr7.

<u>Literature:</u> -

Number of benefit units in the household receiving benefits on the sampling date

<u>Variable name</u> *nbgbezug*

<u>Variable label</u> Number of benefit units in the HH receiving benefits on the sampling date

Source variables bgbezs8, bgnr8, hnr

<u>Category / dataset</u> Benefit unit / household dataset

Prepared by Daniel Gebhardt

Explanation This variable indicates the number of benefit units within a household that were re-

ceiving benefits according to Social Code Book II on the sampling date. The value was calculated via the household number by aggregating the benefit units within a household that were actually receiving benefits according to variable *bgbezs8* from

the person register.

<u>Literature:</u> -

5 Data preparation

Since wave 3, infas, not the IAB, has been responsible for preparing the data. To guarantee consistent data preparation in the longitudinal section, infas was provided with the relevant syntax files for data preparation from wave 2, necessary sources, intermediary datasets and documentation of individual operations. Important decisions, such as the correction of structural problems in participating households or the development of the *bio_spells* dataset, which was first developed in wave 4, were made with the IAB. The IAB was also available for questions during data preparation.

The information gathered in the wave 8 interviews is available from infas as ASCII data. First, infas prepared the following datasets from the raw data³¹:

- Household dataset for the cross-section, including the spell-reshaped questions for the modules "childcare", "social participation" and "educational package"
- Household dataset for the longitudinal section (module "Unemployment Benefit II")
- Dataset updating household composition (matrix)
- Dataset updating family relationships in the household (relationship matrix)
- Individual/senior citizen dataset for the cross-section
- Individual dataset for longitudinal section I (module "employment biography [spells]")
- Individual dataset for longitudinal section II (module "measures")
- Dataset for open texts (across household, personal and senior citizen interviews)

Second, a more detailed, formal and content-oriented verification of the data was performed. These data were then prepared as the scientific use file. Furthermore, infas provides a gross dataset along with special datasets that are not derived directly from the actual survey instruments.

The data checks conducted at infas can be divided into three steps, which are detailed in the following sections. First, the household structure of the re-interviewed households was reviewed and when necessary, corrected. If serious problems were identified in the structure, the corresponding interviews were removed (see Chapter 5.1 on this issue). This step was followed by a detailed review of the filter questions (applying corrections if necessary). Filter errors were marked and specific codes were set for missing values (see Chapter 5.2 on this issue). Next, selected items were verified for plausibility. Clearly implausible or contradictory responses were marked by a specific missing code. However, such data corrections were limited.

The following table reviews the steps of the data preparation:

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The software packages Stata (versions 11 and 12) and PASW (version 18) were used for data preparation.

Table 22: Overview of the steps to prepare the wave 8 PASS data

Procedure 1 Import the raw data into working datasets 2 Check the household structure (see Chapter 5.1) 3 Remove problematic interviews (household and/or individual levels) (see Chapter 5.1) 4 Integrate individual and senior citizen datasets 5 Correct the household structure of re-interviewed households (see Chapter 5.1) 6 Filter checks at the household level (see Chapter 5.2) 7 Construct a household grid dataset and perform plausibility checks (see Chapter 5.3) 8 Generate synthetic benefit units (see description of variables, Chapter 4.5) 9 Generate new control variables based on the household data after filter checks, household grid dataset and plausibility checks 10 Filter checks at the individual level (see Chapter 5.2) 11 Code information from open-ended survey questions (see Chapter 4.1) 12 Plausibility checks of household and individual-level data (excluding spell data) (see Chapter 5.3) 13 Prepare, plausibility check and construct spell datasets (see Chapters 5.6 to 5.8 and Chapter 5.3) 14 Simple generated variables (see Chapter 4.4) 15 Complex generated variables (see Chapter 4.5) 16 Generation of the data structure for the scientific use file (household, individual and register datasets) 17 Anonymisation (see Chapter 5.5)

5.1 Structure checks and removing interviews

A structure check was conducted before the filter checks. Here, interviews that were not considered successful were to be identified and if necessary, removed from the datasets. In addition, the structure of re-interviewed households was compared with the structure reported during the previous wave to identify and if necessary, to correct implausible or problematic changes in household composition and errors in the allocation of the personal interviews to their respective positions in the household. To observe households in the longitudinal section, it is essential that the individuals be assigned consistently to their position in the household and the respondents can be identified clearly across waves. A personal identification number must not be assigned to different individuals in different waves. If the correct household composition was unclear, all of the interviews conducted with this household in wave 8 were removed from the dataset. If a personal interview was conducted with the wrong individual without further problems in household composition, then only the personal interview was removed.

Different processes identified problematic cases. The relevant cases were discussed as part of a formal procedure between infas and the IAB. The final decision on how to proceed with these cases was made by the IAB. The following specifies the extent of the checks conducted. Not every check in every wave identifies problems. The result of a check is usually that an issue occurs in few cases. Furthermore, known error sources are

absorbed during the interviews. For example, the intention of the survey instrument is that not all known target persons can move out of a panel household at the same time and that at least one remaining individual is at least 15 years old.

- By comparing the first names reported in the current and previous waves, changes in household composition that had not been recorded correctly were identified. Instead of recording moves into and out of a household in the relevant places during the household interview, interviewers sometimes renamed household members or changed their age or sex. All cases in which a first name had been changed that could not be attributed to correcting the spelling and for which the year of birth reported in the previous wave differed by more than one year from that reported in the current wave were reviewed individually. A decision was made as to whether the interviewer made a simple change requiring correction of the first name, age or sex or an inadmissible change to the household structure.
- Furthermore, whether more than one individual with the same date of birth was living in the household was reviewed. Whether these cases were plausible was decided in the context of the household, using two waves. The remaining cases then underwent another review. Households in which a date of birth was reported in the current and previous waves by individuals in different positions in the household structure were identified. Here, it seemed reasonable to suspect that a different individual provided the personal interview in the current wave. In the context of the household and individual-level data of the current and previous wave, individual decisions were made for each household and personal interview.
- In general, the date of birth from the personal/senior citizen interview of the current wave displaces all other age information on that individual, e.g., from the household grid, and is the basis for all generated variables utilising age. The date of birth is corrected in *PD0100*. If an individual's year of birth changes significantly according to *PD0100* but the day and month stay the same, the previously known date of birth has never changed according to *PD0100*, and at least two pieces of information about the date of birth from *PD0100* are available from previous waves, then the year of birth is reset to the value from the previous waves considering the whole household. Consider a hypothetical individual whose date of birth is recorded as February 1, 1972 in at least two previous waves and whose date of birth is now recorded as February 1, 1992. This date of birth would make this individual younger than the other children in the household. Without a correction, such an arrangement leads to an implausible relationship structure, which would consequently mean that synthetic benefit units could not be generated. Hence, in the example above, the date is corrected to February 1, 1972 in the current wave.
- To identify households that are considered not successfully surveyed, the datasets at the household and individual level are merged. Personal interviews without a full

household interview and household interviews for which no individual interview was available were marked.³²

- Moves into and out of a household are another important factor. Panel households with reported move-outs were generally inspected and correlated with the split-off households. Evaluations were made as to whether the remaining household of the panel household is plausible. Interviews from panel households in which all household members leave except individual children under 15 years old were discarded for the panel and split-off households. If more than one individual moved, whether these individuals formed a joint split-off or several different households was considered and whether this is plausible was determined. For instance, cases in which one partner left the panel household with young children but the children formed several split-off households were considered implausible. In cases of a non-realised split-off household, move-outs were considered plausible, but all individuals who moved out were remerged into one joint split-off household.
- Individual cases occurred in which the panel household indicates that individuals formed a split-off household, but all members could be identified in the split-off household. Alternatively, not all members of the panel household live in the split-off household, and at least one member of the panel household was not reported as having moved out or moved to a split-off household other than the one observed. Decisions were made as to which reported move-outs were considered valid and which were discarded as implausible. If a reported move-out was retroactively discarded as implausible, the individual who had allegedly moved out was retroactively re-integrated into the household panel.
- In split-off households, individuals who are not known from the panel household but who join PASS through the split-off household might still originate from the panel household. Two situations promote these cases. The first situation arises when a panel household reports several individuals moving out and the split-off individuals formed more than one household. In that case, a dynamic preload is created for the current file for all split-off households identified through the panel household. If, however, individuals who, according to the panel household, live in various split-off households are actually sharing a split-off household, those individuals who were not assigned to this split-off household by the panel household but to another split-off household do not have a preload and are included as new individuals.
- It is possible that individuals from a panel household move out of or into a household that was formed as split-off household during a previous wave and that was successfully surveyed at that time. Thus, there is another move from the original panel household into this split-off household after the separation of the split-off household. Regardless of whether the panel household from which the split-off household emerged was successfully surveyed during the wave of the move, such cases cannot

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New sample households for which a household interview but no valid personal interview was available were removed from the dataset following the procedure used in wave 1. In contrast, the household interviews of re-interviewed households and split-off households were retained.

be controlled in the field. To do so, the split-off household would have to be provided with the personal information of all individuals from the panel household (and possibly all individuals in other split-offs from this panel household) as a preload. The few cases in which such a situation might occur do not justify such efforts in the field. Instead, these cases must be found during the structure checks. Note that in this context, split-off households must be considered in the waves following their first successful survey even if they are considered panel households in field control. In both cases, the personal identification numbers of the individuals in the split-off household are corrected retrospectively. It must also be considered that these individuals are treated as new respondents in the personal/senior citizen interview although they might have already participated in an interview. This deviation is generally not corrected (see also Chapter 4.4).

- In panel households that reported a move-out as of wave 2, a return to the household can also occur as of wave 3. Recognising these individuals as moving back in and assigning them their former household position instead of a new household position is a function of the household grid. Whether these requirements were met in the field in all cases was also evaluated. For individuals who were identified in the current wave as moving back in by comparing the first name, age and sex with the members who previously moved out of the household, the household structure must be changed. These changes led to retroactive changes of the personal identification number of the individual and the individual information in the household interview e.g., information about childcare or the reasons for a cut in Unemployment Benefit II to the correct position within the structural check. Whether an individual who is marked in the field as moving back in is the same individual who moved out during a previous wave was also verified. If not, this change represents an individual who is new to PASS. Changes to the household structure are also made in this case.
- In case of moves back into a household, whether the split-off household in which the individual lived was successfully surveyed during the current wave and whether the split-off household reported that the individual moved out were verified. In addition, the status of individuals who moved back into their panel household during a previous wave must continue to be verified with the split-off household provided the split-off household is part of the current panel sample. If an individual who moves back in is still considered a current household member in his/her split-off household, a decision was made as to whether this was plausible or whether either household structure should be corrected.
- Returns are not the only cases of individuals being considered current household members of several households. This situation can also occur when a member of a split-off household is not recorded as having moved out of the panel household. Individual cases can be acknowledged as plausible after examination of both household structures. These cases are documented in the zdub* variables in the person register. For further explanation, please refer to Chapters 4.4 and 5.4.1.2 of the data report for Wave 5 of PASS (Berg et. al., 2012).
- Other issues concerning the relationship of a panel household and its split-off households can also arise. Individuals who joined PASS via a split-off household might move to the panel household. Another possibility is that individuals move from one

- split-off household to another. Generally, all individuals in a panel household and all of its split-off households must be considered a network. The structure checks are designed so that individual moves among the households of such a network are detected regardless of the direction in which an individual moves.
- Household structure verification generally evaluates the changes between waves, not the plausibility of the structure. Therefore, the household structure first-time interviews can only be verified to a limited extent. For first-time households, information concerning first name, age and sex is reviewed to determine whether individual household members are listed multiple times. In this case, only the initially reported household position is maintained. This situation might lead to other changes in the household structure. If, for example, in a household interviewed for the first time, there are four individuals and the individuals in positions 2 and 3 are identical, individual 3 is removed and individual 4 is retroactively moved to position 3. As a rule, in a household interviewed for the first time with X household members, positions 1 to X are to be filled without gaps. Someone retroactively recognised as moving back through a subsequent change in his or her personal identification number also makes it necessary to move the individual information in the household interview.
- Thanks to feedback provided by a field interviewer, a household that was included twice in the panel sample during wave 4 was detected. Household 10015439 had been included in the sample as the identical household 15044862 since wave 1. Both households were successfully surveyed during waves 1 and 3 and not surveyed during wave 2. In wave 4, household 10015439 was successfully surveyed. This duplicate was detected because "both" households were assigned to the CAPI interviewer for that point. The household composition remained the same across all waves. Household 15044862, which was not surveyed in wave 4, will be deleted from the sample for wave 5. There will be no retroactive removal of the duplicate from waves 1 to 3 because to do so would affect weighting. The duplicate household is coded 26 in the hnettod4 variable in hh_register, which identifies the reason for non-surveying. All household members of the duplicate household are coded 56 in the pnettod4 variable in p_register.
- Individual decisions were also made to address cases that proved to be problematic during the structure checks. Here, the seriousness of the particular problem was significant. In cases in which the correct household composition in wave 8 was unclear, all of the interviews from wave 8 were removed. In wave 9, these households will be treated as households that did not participate in wave 8. If in retroactively removed household interviews moves-out were reported, the split-off households were discarded. This removal affected both the interviews conducted in the current wave in these split-off households and the sample of the subsequent wave. Split-off households that developed from a discarded interview of a panel household are retroactively classified as not having been conducted and do not contribute to the panel sample of the subsequent wave. If there was merely a problem in assigning individuals to their respective positions in the household, i.e., if it was suspected that a personal interview had been conducted with the wrong individual in wave 8, then only that personal or senior citizen interview was removed. Structural problems with no serious consequences that could be solved, for example, by removing a personal interview, first name, age and

sex were made at the household level. The incorrect information concerned was replaced with the last valid value from the previous wave or the value from the previous wave added to the number of years since the last valid interview.

In addition, all interviews with individuals for households with no complete household interview were removed. In the opposite case, i.e., households for which no individual-level interview was available, a distinction was made between re-interviewed households and households from the refreshment sample. Households from the refreshment sample that were not successfully surveyed were removed following the procedure used in the previous waves. In the case of re-interviewed households without interviews at the individual level, however, the household interview was not deleted.

The netto variables (hnettok8, hnettod8, pnettok8, pnettod8) in the household and person register datasets indicate removed interviews. Through the corresponding variables in the household register, it is possible to trace the re-interviewed households whose household interviews were later removed. Net variables in the person register allow for tracing the cases in which only single individual-level interviews or all of the interviews in the household were deleted. In the case of households from the refreshment sample of wave 8 without at least one valid household and personal interview, it is not possible to trace deleted interviews in the register datasets because these households were not included in the datasets.

5.2 Filter checks

During the filter checks, the correct operation of the filter questions in the instruments was verified using a statistical program. If certain questions were asked when the value of the relevant filter variable would have required something else (for example, if detailed information was requested about vocational training although the respondent had stated that he/she did not have any vocational qualification), these variables were set to missing code "-3" (not applicable), which they would also have received through correct use of the filters.33 Moreover, some items were not asked in individual cases when those questions would have been necessary according to the filter (e.g., if no further information was recorded about vocational training although the respondent had stated that he/she had undergone such training). In these cases, the missing code "-4" (question mistakenly not asked) was assigned. An assignment of code "-4" can also be based on the household structure evaluation described in Chapter 5.1. If an individual's move-out is retroactively discarded as implausible and the individual is retroactively classified as belonging to his or her former household, then individual information about these individuals in the household interview must be coded retroactively as mistakenly not surveyed. Thus, the code "-4" does not always refer to a problem in the survey instrument. If code "-4" is assigned to a question that is relevant for filtering subsequent questions, then the subsequent questions are also coded "-4" in case these subsequent questions are not asked. If these questions

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As is customary in such cases, the filter checks were conducted beginning with the items that were asked first.

were asked because, for instance, several filter questions linked to this subsequent question and another filter question triggered the question correctly, the value recorded there remains.

In an additional step, the missing codes assigned by the field institute and system missing codes were replaced by standard values for all variables. Table 23 provides an overview of the assigned values. Codes "-1" and "-2" are the standard "don't know" and "details refused" answers recorded during the survey, respectively. Code "-3" is the general "not applicable" code for questions not asked due to filters. As described above, code "-4" was assigned if a question was not asked because of a filter error. Codes "-5" through "-7" are question-specific codes. These can be either specific missing codes (e.g., "Not applicable, not available for the labour market") or special categories for valid values (e.g., a category for an income of greater than €99,999 in the open question on income). These codes were only assigned as required.

Table 23: Overview of the missing codes used

	Explanation
-1	"don't know"
-2	"details refused"
-3	"not applicable (filter)" (question not asked due to filter)
-4	"question mistakenly not asked" (question should have been asked)
-5	question-specific code number 1, only assigned as required
-6	question-specific code number 2, only assigned as required
-7	question-specific code number 3, only assigned as required
-8	"implausible value"
-9	"item not surveyed in wave"
-10	"item not surveyed in questionnaire version" 34

The value "-8" is a specific missing code assigned during the plausibility checks (see Chapter 5.3 on plausibility checks). The missing code "-9" became necessary for the first time in wave 2. It is assigned if an item was not asked during a specific wave.

Because the dataset is prepared in long format, as was described above, variables that were no longer asked in any version of the questionnaire as of wave 2 are coded "-9" for the observations in this wave. Variables included for the first time after wave 1 are retroactively coded "-9" for observations of waves in which they were not surveyed. Code "-10" can be used to consider differences between questionnaires, that is, between the person-

sions into one comprehensive household questionnaire.

As of wave 4, code "-10" has only been used to differentiate between personal and senior citizen questionnaires. Up to and including wave 3, there was an additional differentiation at the household level between first-time and repeatedly interviewed households. The differentiation at the household level is not continued in wave 4 due to the merger of the questionnaire ver-

al questionnaire and senior citizen questionnaire or between two versions of the household questionnaire until wave 3.

5.3 Plausibility checks

For the plausibility checks, an extensive list of theoretically possible contradictions in the respondents' statements was checked. The checks conducted during the previous waves were adapted and extended for the current wave. Furthermore, the household structure and spell data were checked for plausibility - especially for inadmissible overlaps within the individual spell types. Generally, only the data gathered in the cross-section of wave 7 were verified. No checks were conducted in the longitudinal section, that is, to compare the information provided in the current wave with that provided in the previous wave.

In detail, the following steps were conducted:

- 1. Contradiction check: In general, contradictions were only corrected either if the implausibility could be defined as particularly serious and/or if the alteration was considered minor. The latter applied, for example, if only a small number of cases were affected or if one missing code (e.g., "-3") was replaced by another (e.g., "-8"). Two strategies were used to filter implausible statements. Either the implausible responses were corrected directly, or they were assigned a specific missing code.
- 2. Implausible responses were only corrected if it was highly probable that the interviewer had entered information incorrectly: for example, if the interviewer entered a monthly total rent of EUR 9,998.-. Here, it was assumed in the plausibility check that the five-digit missing code "99998" (don't know) was entered incorrectly. This response and other similar responses were recoded to the corresponding missing categories. If the recoded missing categories triggered a filter in subsequent questions, as is the case for the categorical question of income, then the categorical questions were retroactively set to code "-4" (question mistakenly not asked).
- 3. However, it was rarely the case that a value could be recognised as an incorrect entry with certainty. In most cases, it was only possible to establish a contradiction between two statements but not to identify specific incorrect entries that had led to the implausible statement. Therefore, in these cases, no corrections were made, and the specific missing value code "-8" was assigned instead. It was decided on an individual basis whether the code was assigned to one of the two variables involved in the contradiction or to both of them.
- 4. Plausibility check of the household structure: This check was conducted based on the information collected in the household interview about family relationships between household members, age, sex and first name. Prior to this check, information about relationships in the household was supplemented by information about partnerships reported in the personal interview.
- 5. To identify implausible household structures, the information on relationships was first combined with the demographic information for individual household members. For the households that were identified as implausible during these checks, individual deci-

sions were made considering overall household structure and other information gathered during the interviews (e.g., on marital status in the personal interview). Implausible relationships were marked as such ("-8") or corrected based on additional information on the household context if it was highly probable that an error had occurred. For example, in the case of two people of the same sex who were both biological parents of a third member of the household, the sex was corrected based on the first name. If the first names also indicated two people were of the same sex and if there was no other relevant information available, then the relationship was marked as implausible based on the household structure.

- 6. In a second step, checks were conducted comparing sets of three family relationships for plausibility. The following provides an example of a relationship structure that would be classified as implausible: individual A is individual B's spouse. Individual A is the biological parent of individual C. Individual C is a sibling of individual B. If such a combination or similarly implausible combination of relationships was identified, an attempt was made to make the relationship plausible based on the household context. In the case described, the relationship data were corrected by coding individual C as a child of individual B, whose status was not specified. The aim was to correct as many of the implausible entries as possible because a plausible and complete set of relationships is necessary to generate the benefit unit.
- 7. In addition, the spell datasets were subjected to a number of plausibility checks, as detailed in Chapters 5.6 through 5.8.

5.4 Retroactive changes in waves 1 to 7

During the data preparation process for the scientific use file for wave 8, some changes were also made to the waves that had already been delivered. These changes included corrections of errors that were detected after the completion of the scientific use file of wave 7. The corrected data can now be used in the SUF datasets of the current wave, wave 8. Tables 24 through 28 provide an overview of the retroactive changes to the delivered waves of PASS³⁵.

Table 24: Overview of retroactive changes to the household dataset (HHENDDAT)

Altered variable	Dataset concerned	Altered wave	Type of alteration	Description of the alteration
-	-	-	-	-

Adjustments to value or variable labels are only considered here if this changes the interpretation of variables or values.

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Table 25: Overview of retrospective alterations in the individual dataset (PENDDAT)

Altered variable	Dataset concerned	Altered wave	Type of al- teration	Description of the alteration
PA1301a PA1301f	PENDDAT	7	correction	PA1300a will be filtered more strongly than all the other items in question PA1300*. In two cases, open statements were coded in the category "other" in item A, although the item was not surveyed because of the filter. These two cases were relocated in PA1301a from code 1 to code -3 and in PA1301f from code 2 to code 1.
branche	PENDDAT	7	correction	In one case, <i>branche</i> , had code -3, although statements existed concerning the sector of actual employment. The statement regarding the sector was completed.
PTK0321g	PENDDAT	3-6	correction	Item G of question <i>PTK0321</i> was developed in wave 2 from the coding of the statement "other" and from wave 3 onwards surveyed in <i>PTK0320g</i> . Cases with <i>PTK0320g</i> ==1 also had <i>PTK0321g</i> in code 2. In all, 1,037 cases that had <i>PTK0321g</i> in code 1 were affected.
azges2	PENDDAT	7	correction	The once existing value of 180 was replaced with 90. The reason for this substitution was a duplicate in the bio_spells-dataset, which was also replaced.
PB0401 PB1001	PENDDAT	1-4	correction	Part of the data preparation is plausibility checks. Questions had been replaced by
PB1601				code -3 because, by examining the open statements of the category "other", it was clear that the question should not be
PG0901d				used. An example includes the respondents who indicated "primary school" as
PMI1121				another school degree. These cases were coded from "Yes" to "No" in the
PMI1131				question regarding whether they have a school degree. The subsequent question concerning the type of degree was coded

				to -3. Sometimes, the plausibility checks were adapted only to the variables without the coded open statements, not to the variables that included the coding. PB0401 was affected 19x in wave 1, PB1001 was affected 8x in waves 3 and 4, PB1601 was affected 4x in waves 3 and 4, PG0901d was affected once in wave 2, and PMI1121 and PMI1131 were each affected 4x in wave 2.
PTK0321e PB1301i PB1301j PEE0201d PAS0901g PSU0201g PG0901f PSB1201t	PENDDAT	2-7	correction	Occasionally, the respondents indicated that "other" is relevant, but they did not make a specific statement. Thereafter, there is a numeric "other" statement but no codeable text. In these cases, the "other" category of the variable that included the coded open statement was replaced by code 2 but did not keep the correct code 1. <i>PTK0321e</i> was affected 12x in waves 2 and 3, <i>PB1301i</i> was affected 12x in waves 3 and 6, <i>PB1301j</i> was affected 3x in waves 3 and 6, <i>PEE0201d</i> was affected once in wave 4, <i>PAS0901g</i> was affected twice in wave 5, <i>PSU0201g</i> was affected once in wave 7,
				PG0901f was affected 15x in waves 3, 4, and 7 and PSB1201t was affected 6x in wave 6.
PG1301	PENDDAT	4	correction	The other statements for question <i>PG1300</i> were surveyed and coded in wave 4. In the creation of the SUF, <i>PG1301</i> was coded incorrectly with code -9. <i>PG1301</i> was filled with related content for wave 4 afterwards.
PSM0201I PAS0921I	PENDDAT	7	correction	For both of these variables, many other statements exist, which should also be coded "other" to limit and clear the amount of considered social networks. To reduce the effort to collect open texts during the interview, a documented precode list that contained frequently mentioned answers, which will not be coded, was added to the pattern of the ques-

				tionnaire beginning in wave 7. The cases that named no open text and only entries of the precode list were incorrectly coded 2, not 1. <i>PSM0201I</i> was affected 886x, and <i>PSM0201I</i> was affected 22x.
PB1500a PB1500c	PENDDAT	2	correction	In 4 cases, the reported degrees, which were openly named in the category of "other" of <i>PB1300*</i> to <i>PB1500*</i> , were transferred. <i>PB1500b</i> was transferred from code -3 to code 1, and the other items remained at code -3. The others were transferred to code 2.
PET3700 PET3701	PENDDAT	2	correction	A case of a professional military member who answered the subsequent question with code -2 was corrected. This answer was not transferred in the context of the anonymization to <i>PET3700/PET3701</i> , which were incorrectly coded as code -3.
PSH0660	PENDDAT	2	correction	Eleven cases that answered the subsequent question <i>PSH0650</i> of whether the father was a professional military member with the code of -1/-2 were corrected. These answers were not transferred in the context of the anonymization to <i>PSH0660</i> , which was coded incorrectly as code -3.
PET1221 PET1231 PET1241 PET1241na PET1251 PET1251na PET1261 PET1271	PENDDAT PENDDAT_ nanonym	2	correction	There were cases in which the variables <i>PET1200*</i> et seqq. regarding the last employment were surveyed correctly (code -4). For the 23 persons in these cases, several statements exist from the employment longitudinal section (<i>PET1211</i> et seqq.). All substantial statements were correctly transferred from the longitudinal section. However, the variables <i>PET1221-PET1271</i> with additional questions concerning roughly the StiB <i>PET1211</i> were not coded to code -3 but incorrectly to code -4 if they were over filtered.
PET1221	PENDDAT PENDDAT_	2-3	correction	In waves 2 and 3, employment can ap-

PET1231 PET1251 PET1251na PET1261 PET3401	nanonym			pear because of the past survey design that the statements of employment spells on the last employment were transferred to the variables <i>PET1211</i> et seqq. if there were statements concerning the last employment (<i>PET1210</i> et seqq.) in the cross-sectional survey. This situation was always the case if <i>PET0150</i> ==2& <i>PET0151</i> ==1. If the statements of the cross section and the longitudinal section differ regarding StiB, not only the substantial additional questions involving roughly the StiB of the longitudinal section were transferred correctly to the variables <i>PET1221</i> to <i>PET1271</i> but also the substantial statements of the additional questions on roughly the StiB of the cross-section of <i>PET1220</i> to <i>PET1270</i> were incorrectly taken over to the variables of <i>PET1221</i> to <i>PET1271</i> .
				These statements must be replaced by - 3. These variables are affected in the following frequencies: <i>PET1221</i> : 17x; <i>PET1231</i> : 42x; <i>PET1251</i> and <i>PET1251na</i> : 1x; and <i>PET1261</i> :4x.
				Furthermore, there is one case in which, for <i>PET3300</i> , the first and the last employment are identical (code -5). The statement of StiB from the cross section was transferred incorrectly to the <i>PET3401</i> variable.
PET1261	PENDDAT	2-3	correction	Three cases with the combination of the characteristics "PET1210!=5 6 & PET1211==5 6": PET1261 had the code of -3 for the number of colleagues, which had been inserted.
azhpt* azges*	PENDDAT	2	correction	If <i>PET1510</i> ==-4, then the code "-5 Generation not possible" in the variables regarding working time should be created; however, in wave 2, they were coded -3.

				In all, 26 cases of wave 2 were coded -5.
PET1290	PENDDAT	5	correction	One case of wave 5 had a substantial value in PET1290, although the surveyed person is self-employed (PET1510==5), and, accordingly, no working time exists. PET1290 was corrected to code -3.
vegp megp	PENDDAT	3-7	correction	Two cases at <i>vegp</i> and 27 cases at <i>megp</i> had code -5, whereas all the other occupation-related variables generated for the mother or the father had the correct code of -3. These cases were also transferred to code -3. The error appeared in the generation of wave 3 and was continued by updating the following waves.
msiops misei mmps vsiops visei vmps	PENDDAT	4-7	correction	In all, 67 cases regarding the occupational prestige of the mother and 40 cases concerning the occupational prestige of the father had substantial statements, although there is no occupation (code -3) in the correctly related ISCO-variable <i>misco</i> resp. <i>visc.</i> The prestige variables were coded to -3 because, during the survey, the ISCO-statements were surveyed but rejected after the filter test. The values in the prestige variables should also be rejected. The error occurred in the generation of wave 4 and was continued by updating in the subsequent waves.
PET3900	PENDDAT	2	correction	Overall, 236 cases had code -4 and were corrected to code -3. There existed correct filtering but no sub-survey.
PET1200b ejhrlewt	PENDDAT	5-7	correction	The end year of the last employment was compared with the birth year of the respondent. In one case, the implausible value of 1900, which was surveyed in wave 5, was not coded to -8. This case was revised. By updating, this value was also misfiled in <i>ejhrlewt</i> in the subsequent waves and was corrected.

*casmin *isced97 *bilzeit	PENDDAT	1-5	correction	In wave 5, some corrections of the surveyed and generated education variables occurred. For further information, review the PASS-data report of wave 5 and the first record in table 25. These corrections should have been expanded to the constructs of casmin, isced, and education time of the respondent resp. the parents. These corrections were made. In all, the cases with codes -1 resp2 were replaced with a substantial code. In 3 cases, the statements of the respondents were corrected, as well as the statements concerning the mother in 27 cases and the statements regarding the father in 22 cases.
PET2510b	PENDDAT	5-6	correction	Four cases were replaced by code -3. Twice, there were substantial statements, although <i>PET2510b</i> should not be surveyed. Twice, code -3 was allocated even though the information was surveyed. Both of these cases were filled with the surveyed statements.
PET3300 PET3300na PET3400 PET3500	PENDDAT_ nano- nym	4	correction	Question <i>PET3950</i> collected the first occupation as open wording for the occupation coding. The information was not dropped in this variable but rather in the generated variable regarding the first employment. Mostly open statements were made. However, there are also numeric codes. In addition to the correct processed codes "98 don't know" and "99 no statement", the codes "96 first and last employment are identical", and "97 first employment was already named". If codes 96 or 97 are named, subsequent questions <i>PET3300</i> et seqq. should be excluded. However, in wave 4, the following questions were surveyed, and these statements were coded as -3: <i>PET3300</i> and <i>PET3300na</i> in 22 cases; <i>PET3400</i> in 7 cases; and <i>PET3500</i> in 8 cases.

PET3*01 *eewt PENDDAT PENDDAT_ nanonym 4-7 correction

All variables concerning the first occupational status are affected in this correction if the information from the crosssection and the longitudinal section were combined as a result of the generation. In this generation, you must review the special codes "first and last employment are identical" and "first employment was already named". These answers were surveyed similarly to a special code in questions PET3200* and PET3300. Since wave 4, both of these codes were also surveyed in question PET3950 (for further information, see the previous correction). These changes in the questionnaire of the 4th wave were not included in the generation of the affected variables. The affected cases that answered PET3950 by using one of the two special codes had most of the affected variables and negative special codes so far, which shows that there is no available information for these cases. In this correction, the codes were replaced with sustainable statements. Otherwise, in begmeewt und begieewt, the incorrectly sustainable statements were replaced with correct values. This action occurred for the following number of cases for each variable: PET3301 and PET3301na each 1400x; PET3401 441x; PET3501 813x; PET3601 and PET3601na each 11x; PET3701 55x; PET3701na 50x; PET3801 85x; PET3901 15x; eseceewt 3848x; egpeewt 3009x; begmeewt 770x; begjeewt 795x; stibeewt 2659x; iscoeewt 1207x; mpseewt, siopseewt and iseieewt je 1178x; and kldbeewt 1210x.

The high number of cases, especially for the *eewt variables, occurs because the information was surveyed in the first survey and updated only in the following waves. In addition, this updating was corrected. For egpeewt and eseceewt, additional errors of generation occurred. For

egpeewt, review the next line after, and for eseceewt, the 2 lines that follow.

esec PENDDAT

3-7 correction

In PASS, the complete version of the ESeC generation will be implemented. Although the simple version uses only the ISCO-3-digit for generation, in the full version, the occupation, the leading function, and the number of colleagues will also be used. The simple version is part of the full version, as the simple version of the generation will be realised similar to the handling of the remaining cases that do not have additional information. Because of an error in the adaption of the ESeC generation syntax on the PASS variables, only the simple version of the ESeC generation was used for some cases, although its full version can be used. Accordingly, these cases were assigned to incorrect ESeC classes. This assignment occurred in these variables in the following number of cases: esec 91x; mesec 711x; vesec 2955x; eseclewt 947x; and eseceewt 3848x. In addition to this described correction, the eseceewt variable was also affected from the correction described in the previous and the following line. The number of the affected cases applies to all described generation errors combined.

The high number of cases results from updating the information in the following wave and in *eseceewt*, with the combination of more generation errors. This updating was also corrected. The clearly low number of cases of ESeC of the present (Variable *esec*) exists because only the employment surveyed in the senior interviews was affected by the error. The present employment in PENDDAT that resulted from the biography spells and following all values of ESeC in the bio spell dataset were so far correct and re-

				mained unchanged.
egpeewt	PENDDAT	3-7	correction	In addition to the described correction in the penultimate line, egpeewt was affected by another correction. The variable eseceewt was already named in the context of the two previous corrections. For the generation of both variables, a help variable that contains the occupational position of the first employment must be created. Incorrectly, the occupational position of the last employment was used. The high number of cases results from the combination of more generation errors of the two variables and also from the updating of the information in the subsequent waves; egpeewt was affected 3009x, and eseceewt was affected 3848x. The number of affected cases applies to all described generation errors combined.

Table 26: Overview of retroactive corrections to spell datasets (bio_spells, alg2_spells, and ee_spells)

Altered variable	Dataset concerned	Altered wave	Type of al- teration	Description of the alteration
zensiert	ee_spells	7	correction	In the SUF of wave 7, there were two pnr with two actual persisting spells for each. However, by definition, more than one persisting spell cannot exist in the One-Euro spell dataset. The older spell was always closed.
	bio_spells		correction	In the SUF of wave 7, a spell for pnr 5023504802 was missing. The spell information (spellnret 2) was integrated in the SUF of wave 8.
branche	bio_spells		correction	For pnr 4000152401 and spellnret 3 and 4, the information in the variable sector was missing from the SUF of wave 7.
spelltyp	bio_spells		correction	For pnr 6023218901 and spellnr 3, as well as pnr 6023212201 and spellnr 3,

				the variable was corrected.
BIO0101	bio_spells		correction	For pnr 6023218901 and spellnr 3, as well as pnr 6023212201 and spellnr 3, the variable was corrected.
AL0601	bio_spells	3	correction	Three cases had code -3, although AL0600 was coded "6 other". AL0601 was coded "6 other".
ET1703 ET1704	bio_spells	5-6	correction	Four values were changed. Twice, there were sustainable statements, although <i>ET170*</i> should not be surveyed. These statements were coded as code -3. Twice, they were coded -3, although the information was surveyed. These cases were filled with the surveyed information.
AL21301e AL21401e AL21501e AL21601e AL21701e AL21801e AL21901e AL22001e AL22101e AL22102e AL22103e AL22101e	alg2_spells	1	correction	In one spell, the open statements concerning the reason for the fifth cut were coded -3, although the variables without open statements regarding the reason for the fifth cut were not equal to 3. Because the item <i>AL22100e</i> of the "other" category without coded statements was coded as -2, the statements of the items without coded statements were transferred to the items with open coded statements.

Table 27: Overview of retrospective alterations to the register datasets (hh_register; p_register)

Altered variable	Dataset concerned	Altered wave	Type of alteration	Description of the alteration
-	-	-	-	-

Table 28: Overview of retrospective alterations to the weighting datasets (hweights; pweights)

Altered variable	Dataset concerned	Altered wave	Type of alteration	Description of the alteration
-	-	-	-	-

5.5 Anonymisation

All data obtained by the IAB, a special department of the Federal Employment Agency (BA), are social data, which places high demands on data protection. It was therefore necessary to include some of the variables in the scientific use file in simplified form. These variables are generally labeled with the flag "anonymised" in the variable label. For the same reason, it was also necessary to exclude available regional information, excluding the German states and information about East/West Germany. To protect the data, neither family relationships in the household nor the first names of the household members are part of the scientific use file. References to the household structure are provided, however, by generated variables. For example, the household and benefit unit type (hhtyp³6, bgtyp³7), indicator variables on partners in the household (apartner; epartner³8), indicator variables pointing to parents, partners in the household (zmhh; zvhh; zparthh³9) and various indicator variables for parents (mhh; vhh⁴0) or children of the target person (e.g., ekind⁴1) living in the household are provided.

Table 29 provides an overview of the variables concerned and the process of anony-

Table 29 provides an overview of the variables concerned and the process of anonymisation⁴² in each dataset. Table 30 provides the anonymised variables for the employment spell dataset.

Contained in the household dataset (HHENDDAT), see Chapter 4.5.2

Wave-specific variables contained in the person register (*p register*), see Chapter 4.4.

³⁸ Contained in the individual dataset (*PENDDAT*), see Chapter 4.4.

Wave-specific variables contained in the person register (*p_register*), see Chapter 4.4.

Contained in the individual dataset (*PENDDAT*), see Chapter 4.4.

Contained in the individual dataset (*PENDDAT*), see Chapter 4.4.

If non-anonymised versions of one or several variables are indispensable for your research, please contact the Forschungsdatenzentrum (Research Data Center) to determine the possibility of obtaining access to the data. The form of this access will depend on the research project and the variables necessary.

Table 29: Overview of the anonymised variables in the individual dataset (PENDDAT) in wave 8

Varname	Variable label	Procedure
PD0100	Year of birth (date of birth, anon.)	The precise date of birth was shortened to year of birth.
gebhalbj	Half-year of birth, gen.	The precise date of birth was shortened to an indicator for the first or second half of the year.
PET1210	Last occupational status, simple classification (anon.)	For technical reasons, professional and regular soldiers were recorded separately. Due to the few case numbers and because this group is not usually asked about occupational status, this group was merged with civil servants and judges.
PET1250	Last occup. status civil servant: detailed info., incl. soldiers (anon.)	This variable contains additional cases. The professional and regular soldiers from PET1240 were added to the corresponding civil servants category. The variable for professional and regular soldiers PET1240 is not supplied.
PET1211	Last occup. status, simple class. (incl. spell info.) (anon.), gen.	Procedure as for PET1210.
PET1251	Last occup. status civil servant: detailed info., incl. soldiers (incl. spell info.) (anon.), gen.	Procedure as for <i>PET1250</i> . The variable for professional and regular soldiers PET1240 is not supplied.
stiblewt	Occupational status, last employment, code number, gen.	When generating the occupational status variable, pro- fessional and regular soldiers were assigned to the cor- responding civil servant category.
PET1510	Current occup. status, simple classification, surv. as of wave 2 (anon.)	Procedure as for <i>PET1210</i> .
PET1900	Current occup. status civil servant: detailed info., incl. soldiers (anon.)	Procedure as for <i>PET1250</i> . The variable for professional and regular soldiers PET1800 surveyed in the senior citizens' interviews is not supplied. For the personal interviews, no generated variable for professional and regular soldiers is incorporated into the individual dataset from the employment spells ET090*.
stibkz	Current occupational status, simple classification, harmonised (anon.)	When generating the occupational status variable, pro- fessional and regular soldiers are assigned to the cor- responding civil servants category.
stib	Occupational status, code number, gen.	Procedure as for <i>stiblewt</i> .

PET3300	First occup. status, simple classification (anon.)	Procedure as for <i>PET1210</i> .
PET3700	First occup. status civil servant: detailed info., incl. soldiers	Procedure as for <i>PET1250</i> . The variable for professional and regular soldiers PET3600 is not supplied.
PET3301	First occup. status, simple class. (merged, incl. spell info.) (anon.), gen.	Procedure as for PET1210.
PET3701	First occup. status civil servant: detailed info., incl. soldiers, (merged, incl. spell info) (anon.), gen.	Procedure as for <i>PET1250</i> . The variable for professional and regular soldiers PET3600 is not supplied.
stibeewt	Occupational status, first employment, code number, gen.	Procedure as for stiblewt.
PSH0320	Mother's occup. status at that time, simple classification (anon.)	Procedure as for PET1210.
PSH0360	Mother's occup. status at that time, civil servant, incl. soldiers: detailed info. (anon.)	Procedure as for <i>PET1250</i> . The variable for professional and regular soldiers PSH0350 is not supplied.
mstib	Mother's occupational status, code number, gen.	Procedure as for <i>stiblewt</i> .
PSH0620	Father's occup. status at that time, simple classification (anon.)	Procedure as for PET1210.
PSH0660	Father's occup. status at that time, civil servant, incl. soldiers: detailed info. (anon.)	Procedure as for <i>PET1250</i> . The variable for professional and regular soldiers PSH0650 is not supplied.
vstib	Father's occupational status, code number, gen.	Procedure as for <i>stiblewt</i> .
PMI0200	Not born in Germany: country of birth	Countries with very low case numbers were grouped into larger categories.
ogebland	Country of birth, incl. open info., categories (anon.)	Procedure as for <i>PMI0200</i> .
PMI0500	No German nationality: which nationality? (anon.)	Nationalities of countries with very low case numbers were grouped into larger categories.

ostaatan Nationality, incl. open info., Procedure as for *PMI0500*. categories (anon.) PMI1000a Father: country of res. be-Countries of residence before migration with very low fore migration (anon.) case numbers were grouped into larger categories. PMI1000b Mother: country of resi-Procedure as for PMI1000a. dence before migration (anon.) PMI1000c Father's father: Procedure as for PMI1000a. country of residence before migration (anon.) PMI1000d Father's mother: country of Procedure as for PMI1000a. res. before migration (anon.) PMI1000e Procedure as for PMI1000a. Mother's father: country of residence before migration (anon.) PMI1000f Mother's mother: Procedure as for PMI1000a. country of residence before migration (anon.) Father: country of residence Procedure as for PMI1000a. ozulanda before migration, incl. open info., categories (anon.) ozulandb Mother: country of resi-Procedure as for PMI1000a. dence before migration, incl. open info., categories (anon.) ozulandc Procedure as for PMI1000a. Father's father: country of residence before migration, incl. open info., categories (anon.) ozulandd Father's mother: country of Procedure as for PMI1000a. residence before migration, incl. open info., categories (anon.) Procedure as for PMI1000a. ozulande Mother's father: country of residence before migration, incl. open info., categories (anon.) ozulandf Mother's mother: Procedure as for PMI1000a. country of residence before migration, incl. open info., categories (anon.)

Table 30: Overview of the anonymised variables in the BIO spell dataset (bio_spells) in wave 8

Varname	Variable label	Procedure
ET0606	Wave 8, Occup. status, simple classification (anon.)	Procedure as for PET1210.
ET1006	Wave 8, Occ. status: civil servant / judge / soldier, detailed information (anonymised) (anon.)	Procedure as for <i>PET1250</i> . The variable for professional and regular soldiers is not supplied.
stib	Occ. status, code number, gen.	Procedure as for stiblewt.

5.6 Receipt of Unemployment Benefit II

UB II is recorded at the household level in spell form in waves 1 to 7. This concept was continued in wave 8 but with a slightly revised set of questions.

5.6.1 Concept for updating the spells of Unemployment Benefit II receipt that were ongoing in the previous wave

To update spells for which UB II was ongoing during the previous wave and therefore were right-censored in the spell dataset, dependent interviewing questions are included. Households with ongoing spells from the previous wave start here again with the interview.

The households from the refreshment sample that were interviewed for the first time in wave 8 were asked about their receipt of UB II during the period since the last change in the household composition. If this change was before January 2012 or if no information was provided about changes in the household, then the household's receipt of UB II from January 2012 on was recorded.

5.6.2 Structure of the Unemployment Benefit II spell dataset

The structure and contents of the spell dataset on UB II change due to the integration of the spells of UB II reported in wave 8. Here, it is necessary to distinguish among (1) new variables that refer to a particular wave, (2) new variables that do not refer to a particular wave and (3) variables that are no longer asked in wave 8.

1. Additionally, in wave 8, new wave-specific, cross-sectional variables were included in the UB II spell dataset. These variables include AL20607, AL20707a to AL20707o, AL20807 and AL20907. These variables refer to the interview date in wave 8. Crosssectional variables also exist for the interview dates of the previous waves that contain the analogous information referring to the respective wave. Table 31 provides an overview of the cross-sectional information contained in the UB II spell dataset.

Table 31: Cross-sectional variables in the UB II spell dataset (alg2_spells)

	Cross-sectional variable with information referring to						
	Wave 1:	Wave 2:	Wave 3:		Wave 8:		
Does the HH receive UB II for all HH members?	AL20600	AL20601	AL20602		AL20607		
Does the HH receive UB II for individuals 1 to 15?	AL20700a to AL207000	AL20701a to AL20701o	AL20702a to AL20702o		AL20707a to AL20707o		
Amount of monthly UB II receipt?	AL20800	AL20801	AL20802		AL20807		
Has a cut of UB II begun?	AL20900	AL20901	AL20902		AL20907		

- 2. Not available in wave 8 compared to wave 7.
- 3. Not available in wave 8 compared to wave 7.

5.6.3 Plausibility checks and corrections to the Unemployment Benefit II spell dataset

As in waves 1 to 7, the information on UB II was also subjected to a number of plausibility checks in wave 8. Inadmissible overlaps and dates of spells of UB II or benefit cuts were corrected when necessary. In principle, changes were only made to the generated date variables (*bmonat*; *bjahr*; *emonat*; *ejahr*) of the spell of UB II receipt, the spells of benefit cuts (*alg2kbm**; *alg2kej**; *alg2kem**; *alg2kej**) and the censoring indicator of the spell of UB II receipt (*zensiert*). If it was not possible to remove implausible data by correcting the dates, then in a small number of cases, spells of UB II receipt or cuts were merged or deleted.

5.6.4 Updating the Unemployment Benefit II spell dataset

After the spells of Unemployment Benefit II reported in wave 8 had been converted into spell format, and after inadmissible overlaps and implausible dates were corrected following the plausibility checks and corrections, the spells of UB II that were ongoing at the time of the interview in the previous wave were updated using the information gathered in wave 8. Two variants are to be distinguished here. In the first (1), only the censoring indicator *zensiert* is changed. The second variant (2) is an update of the spell that was censored during the previous wave using information gathered in wave 8. Here, the censoring indicator is integrated into the spell of receiving UB II, which was ongoing during the previous wave, as are the generated and recorded end dates, wave-specific cross-sectional information (see above) and new spells of benefit cuts. In addition to updating spells that were censored during the previous wave, new spells that were reported in wave 8 are merged with the spell dataset (3). These three variants are outlined briefly below:

1. Cases in which the household in wave 8 contradicts an ongoing spell of receiving UB II at the interview date in the previous wave.

If the household contradicted an ongoing spell of receiving UB II at the time of the previous wave, either explicitly or implicitly (by reporting an end date that preceded the interview date in the previous wave) in the update question, then *zensiert* was set to "2" (no). The information provided in the interview of the previous wave is assumed correct. Because it is not possible to make reliable statements about the continued duration of the benefit receipt beyond the date of the interview in the previous wave, it is assumed that the benefit receipt ended during the month of the interview in the previous wave. The reported and generated variables for the end date of the spell (*AL20300*, *AL20400* and *emonat*, *ejahr*), along with the question of whether a spell continues (*AL20500*), remain unchanged. The generated end date of the UB II spell (*emonat*; *ejahr*) had been set to the interview date of the previous wave in the previous wave.

2. Cases in which the household reports the end date of a spell of benefit receipt that was ongoing in the previous wave.

If information about the end date of a spell of UB II receipt that was censored in the previous wave is available in wave 8, then the spell that was censored in the previous wave was updated using the current information. First, the recorded end date (*AL20300; AL20400*), the generated end date (*emonat; ejahr*), the follow-up question as to whether the receipt of UB II is ongoing (*AL20500*) and the censoring indicator (zensiert) are overwritten with the information gathered in the previous wave. Furthermore, the spells of benefit cuts reported in wave 8 and the cross-sectional data referring to wave 8 (*AL20607; AL20707a to AL20707o, AL20807, AL20907*) were included.

3. Spells of UB II receipt reported for the first time during wave 8 that do not update any spells that were censored in the previous wave.

Spells reported for the first time during wave 8 were added to the UB II spell dataset. Next, the spell counter was generated new to create a variable *spellnr* without gaps.

5.7 Employment biographies

Employment, unemployment and gap periods at the individual level were recorded in spell form in waves 2 and 3. This concept of a modular spell survey was changed to an integrated survey of the employment biography in wave 4. For individuals who were asked for their employment biography for the first time in wave 8, the reference date for the start of the retrospective interval was adjusted. In wave 8, all spells of employment and unem-

The same applies here. Only the censoring indicator is changed. The reported end date, the question for continuing spells and the generated end date remain unchanged.

ployment since January 2012 were to be reported here. Individuals who were interviewed about their employment biography during the previous wave, however, should report all new spells since the date of the last interview.

5.7.1 Concept for updating the spells that were ongoing in the previous wave

Continuing ET, AL and gap spells were updated in wave 7. To update the spells that were ongoing during the previous wave and were therefore right-censored in the spell dataset, dependent interviewing questions are included in the personal questionnaires.

5.7.2 Structure of the BIO spell dataset

With respect to its structure, the BIO spell dataset has oriented itself on the modular ET, AL and LU spell datasets of waves 2 to 3 since wave 4. ET-specific variables kept their names in the BIO spell dataset compared to the ET SUF of wave 3, analogous to the AL-and LU-specific variables. Variables which are the same in ET, AL and LU have been standardised (BIO0100, BIO0101, BIO0200, BIO0300, BIO0400, BIO0500, BIO0600) as of wave 4 or were already standardised in the original datasets of the SUF wave 3 (bmonat, bjahr, emonat, ejahr, zensiert). Furthermore, variables for type of activity (spelltyp), spell integration (spintegr) and comprehensive spell number (spellnr) are available.

Due to the integration of the employment and unemployment spells reported in wave 8 into the BIO spell dataset, new ET- and AL-specific variables are added. Here, it is necessary to distinguish between (1) new variables that refer to a particular wave and (2) new variables that do not refer to a particular wave.

1. The ET-specific variables in the BIO spell dataset ET0600 to ET2200 are considered wave-specific, cross-section information that refer to wave 2; variables ET0601 to ET2201 refer to wave 3, ET0552 to ET2202 refer to wave 4, ET0553 to ET2203 refer to wave 5, ET0554 to ET2204 refer to wave 6, ET0555 to ET2205 refer to wave 7, and ET0556 to ET2206 are cross-section information that refers to wave 8. Table 32 provides an overview of the ET-specific cross-section information in the BIO spell dataset.

Table 32: ET-specific cross-section variables in the BIO spell dataset (bio_spells)

Cross-sectional variable with information referring to...

	Wave 2:	Wave 3:	Wave 4:	Wave 5:		Wave 8:
Occupational	ET0600	ET0601	ET0552	ET0553		ET0556
status	ET0700	ET0701	ET0602	ET0603		ET0606
(simple and	ET0800 ET1000	ET0801 ET1001	ET0702 ET0802	ET0703 ET0803		
detailed classification)	ET1100	ET1101	ET1002	ET1003		ET0706
ciassification	ET1200	ET1201	ET1102	ET1103		ET0806
			ET1202	ET1203		ET4000
						ET1006
						ET1106
						ET1206
Supervisory	ET1300	ET1301	ET1302	ET1303		ET1306
function;	ET1400	ET1401	ET1402	ET1403		
number of						ET1406
employees supervised						
Supervised						
Cancellation	ET1700	ET1701	ET1702	ET1703		ET1706
of limitation				ET1753a		ET1756a
of an initially limited em-				ET1753b		
ployment						ET1756b
Working	ET2000	ET2001	ET1952	ET1953		ET1956
Working hours	ET2100	ET2101	ET 1932 ET2002	ET 1953 ET 2003	•••	E11930
(contracted;	ET2200	ET2201	ET2102	ET2103		ET2006
actual; aver-			ET2202	ET2203		ET2106
age for						FT0000
irregular working						ET2206
hours)						
Income for				ET2600-		ET2803-
current ongo- ing spells				ET3900		ET3903

The BIO spell dataset also includes an AL-specific variable which is understood as wave-specific cross-sectional information (AL1300 for wave 2; AL1301 for wave 3, AL1302 for wave 4, AL1303 for wave 5, AL1304 for wave 6, AL1305 for wave 7 and AL1306 for wave 8). Table 33 gives an overview of the cross-sectional information contained in the spell dataset.

Table 33: AL-specific cross-section variables in the BIO spell dataset (bio_spells)

	Cross-sectional variable with information referring to								
	Wave 2:	Wave 3:	Wave 4:	Wave 5:	Wave 6:		Wave 8		
Amount of monthly UB I re- ceipt?	AL1300	AL1301	AL1302	AL1303	AL1304		AL1306		

2. Does not exist in wave 8 compared with wave 7.

5.7.3 Plausibility checks and corrections of the spell datasets

At the individual level, the plausibility checks and corrections orient themselves by wave 2 to wave 4. As in wave 4, checks were made only within one spell type. Cross-spell type checks were not conducted. As with the spell data on receiving UB II, correction and recoding were only conducted for the generated date variables. Here, details on seasons were recoded into months, "-8" values were set for implausible responses and date information was replaced or rendered plausible. Because only the generated date variables were edited, the original information gathered in the survey is available to the user in the date variables BIO0200-BIO0500 and AL0800-AL1100, thus permitting the user to conduct his/her own checks and corrections.

In addition, in some cases it was necessary to delete entire spells. For example, spells that were obviously recorded twice were removed. Spells that are completely outside the survey period but for which data were nonetheless collected were also deleted.

5.7.4 Update of spell datasets

After the spells reported in wave 8 had been converted into spell format, plausibility checks and corrections for inadmissible overlaps and spells with implausible dates were corrected. The spells that were ongoing at the time of the previous interview wave were updated using the information recorded in wave 8.

Three variants are to be distinguished here. In the first (1), only the censoring indicator *zensiert* is changed. The second variant (2) is an update of the spell that was censored in the previous wave using information gathered in wave 8 in the narrow sense. Here, the censoring indicator is integrated into the spell that was ongoing during the previous wave, as are the generated and recorded end dates and wave-specific cross-sectional information (see above).

In addition to updating spells that were censored during the previous wave, new spells reported in wave 8 are merged with the spell dataset (3). These three variants are outlined briefly below:

1. Cases in which the individual in wave 8 contradicts an ongoing spell on the interview date in the previous wave.

If the individual contradicted the information that there was an ongoing spell at the time of the previous wave, either explicitly or implicitly (by reporting an end date that preceded the interview date in the previous wave) in the update question, then the censoring indicator *zensiert* was set to "2" (no). The information provided in the interview of the previous wave is assumed correct. Because it is not possible to make any reliable statements about the continued duration of the spell beyond the date of the interview in the previous wave, it is assumed that the spell ended during the month of the interview in the previous wave. The reported and generated variables on the end date of the spell (BIO0400, BIO0500 and emonat, ejahr), along with the question of whether a spell continues (BIO0600) remain unchanged⁴⁴. The generated end date of the spell (*emonat*; *ejahr*) was already set to the interview date of the previous wave in the previous wave.

2. Cases in which the individual reports the end date of a spell that was ongoing in the previous wave.

If information about the end date of a spell that was censored during the previous wave is available in wave 8, then the spell that was censored was updated using the current information. For ET spells, the recorded end date (BIO0400; BIO0500), the generated end date (emonat; ejahr), the follow-up question as to whether the spell was ongoing (BIO0600), the reason for the cancellation of a work contract (ET2300), the generated variables on occupational status and weekly working hours (stib, az1, az2) and the censoring indicator (zensiert) were overwritten with the information gathered in wave 8. Furthermore, the cross-sectional data referring to wave 8 (ET0555 to ET2206) were included.

For AL spells, the recorded end date (BIO0400; BIO0500), the generated end date (emonat; ejahr), the follow-up question as to whether the spell was ongoing (BIO0600), the reason for the end of unemployment (AL0600, AL0601) and the censoring indicator (zensiert) were overwritten with the information gathered in wave 8. Furthermore, the cross-sectional data referring to wave 8 (AL1306) were included. AL spell data, moreover, feature the exception that the spell of UB I (receipt of UB I) is recorded within an AL spell. Which information is updated depends on whether UB I was already received during this spell of unemployment and whether this benefit was ongoing during the previous wave.

• If, in the previous wave, there was also an ongoing receipt of UB I in the AL spell to be updated, then the recorded end date of the receipt (AL1000, AL1100), the

-

Thus, the reported end date remains completed with the interview date of the wave in which the spell was censored or the special code "0" for continuing spells. In addition, the question about whether the spell continued (for the case that the end date corresponds with the interview date) is not changed. The generated date variables continue to contain the last valid information, which here is the interview date for the wave in which the spell was censored.

- indicator as to whether the spell is ongoing (*AL1200*), the generated end date of the receipt (*alg1em*, *alg1ej*) and the censoring indicator of the receipt (*alg1akt*) were overwritten with the information obtained in wave 8.
- If no UB I was received in previous waves in the AL spell to be updated, then the information on UB I receipt was overwritten with the information obtained in wave 8. In addition to the indicator as to whether UB I was received in the AL spell (AL0700), the reported start and end date (AL0800, AL0900, AL1000, AL1100), the indicator for ongoing receipt (AL1200) and the respective generated variables (alg1bm, alg1bj, alg1em, alg1ej, alg1akt) were replaced with the newly recorded information.
- If there was UB I receipt in the AL spell to be updated in the past but that ended in the previous wave, no changes were made to these spells.
- 3. Spells reported for the first time in wave 8 that do not update any spells that were censored in the previous wave.

Spells reported for the first time in wave 8 were added to the BIO spell dataset. Next, the spell counter was generated anew to create a variable *spellnr* without gaps.

Updating the spell datasets does not affect the spell numbers of the previous wave's SUF. Spells already included in the wave 7 SUF (*spellnret*, *spellnral*, *spellnrlu*, *spellnrl*) maintain their spell number. The new spells from wave 8 are added to the respective dataset and the spell numbers are updated.

5.8 One-Euro job spell dataset (ee_spells)

In wave 4, the concept for surveying participation in employment and training measures was thoroughly revised. The MN spell dataset has been replaced by the one Euro spell dataset (ee_spells) as of wave 4. This was updated in wave 8. The reference date as of which to consider one-Euro jobs was January 2013 for wave 8.

5.8.1 Concept for updating the spells that were ongoing in the previous wave

Continuing ee_spells were updated in wave 8. To update the spells that were ongoing in the previous wave and were therefore right-censored in the spell dataset, dependent interviewing questions are included in the personal questionnaires.

5.8.2 Structure of the EE spell dataset

By integrating the one-Euro jobs (OEJ) reported in wave 7 in the OEJ spell dataset (ee_spells), new variables are added that refer to a specific wave. Table 34 gives an overview of the cross-sectional information contained in the EE spell dataset.

Table 34: Cross-sectional variables in the EE spell dataset (ee_spells)

Cross-sectional variable with information referring to							
	Wave 4:	Wave 5:	Wave 6:		Wave 8:		
Weekly working hours in the OEJ	EE1100	EE1101	EE1102		EE1104		
OEJ is the same work permanent co-workers do	EE1200	EE1201	EE1202		EE1204		
Which kind of training necessary for OEJ	EE1300	EE1301	EE1302		EE1304		
Only work or also training/classes?	EE1400	EE1401	EE1402		EE1404		
Assessment OEJ	EE1500a-	EE1501a-	EE1501a-		EE1504a-		
	EE1500h	EE1501h	EE1501h		EE1504h		

For the OEJ spell dataset, it must be considered that there are also spells if the OEJ was not performed, i.e., if there was no participation.

5.8.3 Plausibility checks and corrections in the EEJ spell dataset

The OEJ spell dataset on the participation in OEJ was both checked for plausibility and corrected. The plausibility checks contained checks for dates, for the reference date for the newly integrated spells in wave 8 (January 2013) and for logical inconsistencies in cases of respondents with several OEJ spells.

Only the generated date variables (bmonat, bjahr, emonat, ejahr) were corrected and recoded. Details on seasons were recoded into months, "-8" values were assigned for implausible responses and date information was replaced or rendered plausible. Next, a spell counter *spellnr* was generated. The variable generation was performed analogously to the chronological counters in the BIO spell datasets. Non-participating spells were not included in the sorting and thus kept their original *position within the survey wave*. Spells from wave 7 maintained their spell number for the wave 8 SUF.

6. Weighting wave 8

The weighting concept for wave 8 generally follows the concepts developed in previous waves (see Berg et al., 2013). The starting point for the wave 8 weighting procedure and for the longitudinal section from wave 7 to wave 8 were the cross-sectional weights from wave 6 for households and individuals. The two weights for each household and two weights for each individual were updated. This chapter of the data report documents the technical details and exact models used to generate the weights for wave 8. An overview of the weighting concept used in PASS can be found in chapter 8 (Trappmann, 2013a) of the PASS User Guide (Bethmann, Fuchs, and Wurdack, 2013). Examples of how to use the weights can be found in Chapter 12 (Trappmann, 2013b).

6.1 Design weights for the panel households in wave 8

New "household design weights" were generated for wave 8 from the cross-sectional weights for households of wave 7, taking into account people moving into households from within Germany. This step was performed by using the weight share procedure as described in wave 2 (see Gebhardt et al., 06/2009). Births, deaths or move-outs from households have no influence on weight; moves into households from within Germany, however, increase the inclusion probability of a household because the individuals who moved into the household also had the opportunity to be included in the sample in waves 1 to 7. The new design weight for subsample i dw_ihh₈ is therefore calculated from the old cross-sectional weight wq_ihh₇:

```
1/dw_ihh_8=1/wq_ihh_7+(n_{sample i}/n_{population i})
```

The new design weight is only an intermediate step and therefore is not included in the data.

6.2 Design weights for the refreshment sample in wave 8

In wave 8, the panel was refreshed by sampling new households from new inflows to benefit receipt. All households that were receiving benefits in July 2013 but had had no probability of being selected for the register data sample in the same month in 2012, 2011, 2010, 2009, 2008, 2007 and 2006 had a likelihood of being selected. This refreshment could be achieved by selecting only benefit units in which no member was receiving benefits in July of the previous years. The refreshment sample was drawn from the 300 points of the first wave and the 100 replenishment points of wave 5. Analogous to the special pps procedure used to draw the first register data sample, which is described in Rudolph and Trappmann (2007), the sample size was proportional to the share of new benefit recipients in the population in the sampling point (at the time when the sampling points were selected). The calculation of the design weights is also described in the same article. For cases with sample = 11, the design weight of the refreshment sample is included in the variable dw ba.

6.3 Propensity to participate again - households

In this step, again similar to the procedure in wave 7, the probability of re-participation in wave 8 was estimated for each household that participated in wave 7 based on logit models for willingness to participate in the panel, availability and participation. Additionally, households that participated in wave 6 but not in wave 7 (temporary non-responses) were considered in the modeling for wave 8. In addition to variables from the household and personal interviews with the head of the household conducted during the previous wave, other fieldwork variables were included, e.g., number of contact attempts. The estimated propensities of all three models were multiplied. The reciprocal value of this product can be found in the variable *hpbleib* for each wave. The longitudinal weight for a household from one of the samples of wave 1 for the total period possible [t₁, t₂, t₃, t₄, t₅, t₆, t₇, t₈] across all six waves can be obtained as the product of the cross-sectional weight to t₁, *hpbleib* (wave 1 to wave 2) and *hpbleib* (wave 2 to wave 3, etc.) (see also the PASS User Guide section 12 (Trappmann, 2013b)).

Table 35: Variable overview, codes and reference categories for logit models of reparticipating households

Variable code and reference category	Explanation
alter_1	Household reference person (HRP) younger than 30 years
alter_2	HRP 30-39 years of age
alter_4	HRP 50-64 years of age
alter_5	HRP 65 years and older
Reference category	HRP 40-49 years of age
sex_1	HRP male
Reference category	HRP female
nichtdeutsch	HRP nationality other than German
Reference category	HRP German nationality or missing information
schulbil_1	School qualification HRP: no qualification
schulbil_2	School qualification HRP: lower secondary school
schulbil_4	School qualification HRP: college/university qualification
Reference category	School qualification HRP: intermediate secondary school/pupil
gesundheit_1	Subjective evaluation of the health state of the HRP: very good
gesundheit_2	Subjective evaluation of the health state of the HRP: good
gesundheit_4	Subjective evaluation of the health state of the HRP: not so good
gesundheit_5	Subjective evaluation of the health state of the HRP: bad
Reference category	Subjective evaluation of the health state of the HRP: satisfactory
zufrieden_1	General life satisfaction HRP: scale value 0-2
zufrieden_2	General life satisfaction HRP: scale value 3-5
zufrieden_4	General life satisfaction HRP: scale value 9-10
Reference category	General life satisfaction HRP: scale value 6-8
anz_0_3	Number of individuals in the household aged 0-3 years
anz_4_6	Number of individuals in the household aged 4-6 years
anz_7_14	Number of individuals in the household aged 7-14 years
anz_65	Number of individuals in the household aged 65 years and older
Reference category	Number of individuals in the household aged 15-64 years
eigentum	Type of residential property: proprietor
Reference category	Type of residential property: tenant, missing information
wnka_1	Number of "don't know" and "details refused" responses in household and personal
	interviews of the HRP: none
wnka_3	Number of "don't know" and "details refused" responses in household and personal
	interviews of the HRP: 11 and more
Reference category	Number of "don't know" and "details refused" responses in household and personal
	interviews of the HRP: 1-10
hhincome_1	Household income: up to EUR 870
hhincome_2	Household income: EUR 871-1,400
hhincome_4	Household income: more than EUR 2,200
Reference category	Household income: EUR 1,401-2,200
alg2_1	UB II receipt of the household: current receipt of UB II
Reference category	UB II receipt of the household: no current receipt of UB II
stichprobe1	BA sample
stichprobe3	Refreshment sample (BA) wave 2
stichprobe4	Refreshment sample (BA) wave 3
stichprobe5	Refreshment sample (BA) wave 4
stichprobe6	Replenishment sample (EWO) wave 5
stichprobe7	Replenishment sample (BA) wave 5
stichprobe8	Refreshment sample (BA) wave 5
stichprobe9	Refreshment sample (BA) wave 6
stichprobe10	Refreshment sample (BA) wave 7
Reference category	Microm sample
stichprobe_ba	BA samples (incl. BA refreshment and BA replenishment sample)
Reference category	Microm sample (incl. EWO replenishment sample)
anzkon_1	Number of contact attempts CATI/CAPI: 1 contact attempt
anzkon_3	Number of contact attempts CATI/CAPI: 4-9 contact attempts

anzkon_4	Number of contact attempts CATI/CAPI: 10 and more contact attempts
Reference category	Number of contact attempts CATI/CAPI: 2-3 contact attempts
blneualt_2	New federal states
Reference category	Old federal states
bundesId_1	Federal state: Schleswig-Holstein
bundesld_2	Federal state: Hamburg
bundesld_3	Federal state: Lower-Saxony
bundesld_4	Federal state: Bremen
bundesId_6	Federal state: Hesse
bundesId_7	Federal state: Rhineland-Palatinate
bundesId_8	Federal state: Baden-Wuerttemberg
bundesId_9	Federal state: Bavaria
bundesld_10	Federal state: Saarland
bundesld_11	Federal state: Berlin
bundesld_12	Federal state: Brandenburg
bundesId_13	Federal state: Mecklenburg-Vorpommern
bundesld_14	Federal state: Saxony
bundesId_15	Federal state: Saxony-Anhalt
bundesId_16	Federal state: Thuringia
Reference category	Federal state: North Rhine-Westphalia
bik_1	BIK size class of municipality: population of less than 2,000
bik_2	BIK size class of municipality: population of 2,000 to under 5,000
bik_3	BIK size class of municipality: population of 5,000 to under 20,000
bik_4	BIK size class of municipality: population of 20,000 to under 50,000
bik_5	BIK size class of municipality: population of 50,000 to under 100,000 STYP 2/3/4
bik_6	BIK size class of municipality: population of 50,000 to under 100,000 STYP 1
bik_7	BIK size class of municipality: population of 100,000 to under 500,000 STYP 2/ 3/ 4
bik_8	BIK size class of municipality: population of 100,000 to under 500,000 STYP 1
bik_9	BIK size class of municipality: population of 500,000 and more STYP 2/ 3/ 4
Reference category	BIK size class of municipality: population of 500,000 and more STYP 1

Table 36: Logit models on re-participation for willingness to participate in a panel, availability and participation

	Willingness t	-	Conta	ıct	Participa	tion
	ipate in the Coef.		Coef.	-	Coef.	
-1t A	3810315	p 0.128	5850427	p 0.021		p 0.000
alter_1					861207	
alter_2	259137 1481141	0.307	2631566	0.320	5891349	0.000
alter_4		0.511	.0705046	0.787	4153933	0.000
alter_5	.457098	0.348	-1.135735	0.124	.1052247	0.618
sex_1	0233008	0.885	3080632	0.080	0619951	0.312
nichtdeutsch	4026902	0.126	5367789	0.035	3108847	0.003
schulbil_1	5668341	0.076	1134338	0.751	1990239	0.160
schulbil_2	0290495	0.885	.3132642	0.138	1404954	0.060
schulbil_4	.0200849	0.923	.2269138	0.301	.1485135	0.060
gesundheit_1	3905381	0.192	.4549782	0.171	1617171	0.152
gesundheit_2	4615884	0.019	.5173094	0.019	0507172	0.500
gesundheit_4	.2369609	0.354	.5104258	0.041	.1541369	0.078
gesundheit_5	.1956203	0.584	1223894	0.677	.0956466	0.448
zufrieden_1	6138839	0.131	6917615	0.073	0694222	0.696
zufrieden_2	136351	0.525	1959224	0.352	.0668942	0.407
zufrieden_4	.1794171	0.439	1381387	0.613	.0784391	0.367
anz_0_3	.1352847	0.584	3611268	0.096	.0455081	0.591
anz_4_6	.2878064	0.344	.073746	0.807	.0864352	0.364
anz_7_14	.1842567	0.266	.2082539	0.313	058403	0.287
anz_65	2260294	0.405	.6226049	0.244	.15456	0.219
eigentum	1142682	0.592	.244142	0.439	.0100993	0.908
wnka_1	.3195824	0.074	.0780795	0.660	.1591307	0.014
wnka_3	5159781	0.018	.6179109	0.047	1764802	0.055
hhincome_1	1350454	0.604	3642749	0.175	0647604	0.512
hhincome_2	.10704	0.664	505029	0.033	1534304	0.076
hhincome_4	2342963	0.309	.8390441	0.013	0657497	0.458
alg2_1	1498346	0.480	.0745033	0.704	.0441288	0.566
stichprobe1					1956353	0.060
stichprobe3					222328	0.186
stichprobe4					1907647	0.197
stichprobe5					1361593	0.396
stichprobe6					1492357	0.214
stichprobe7					2163648	0.107
stichprobe8					4410087	0.003
stichprobe9					3170369	0.016
stichprobe10					5538734	0.000
stichprobe_ba	.2717294	0.197	5426794	0.046		
blneualt_2	.0669105	0.715	.1226759	0.531		
bundesId_1	.125417	0.488	.125417	0.488	.125417	0.488
bundesId_2	220521	0.283	220521	0.283	220521	0.283
bundesld_3	.1145659	0.320	.1145659	0.320	.1145659	0.320
bundesId_4	.0769387	0.809	.0769387	0.809	.0769387	0.809
bundesId_6	2907676	0.026	2907676	0.026	2907676	0.026
bundesld_7	2492336	0.101	2492336	0.101	2492336	0.101
bundesId_8	2040472	0.067	2040472	0.067	2040472	0.067
bundesId_9	120.00.2	5.557	0.0.,	0.501	.0308844	0.768
bundesId_10					.1899395	0.503
bundesId_11					.2320162	0.303
bundesId_12					.4950179	0.005

PseudoR2	0.02	57	0.190)3	0.046	7
Log likelihood	-822.8	542	-642.15	9006	-3781.83	371
n	950	9	9341		9185	
cons	4.266417	0.000	6.019603	0.000	2.142081	0.000
anzkon_4			-2.83544	0.000		
anzkon_3			893895	0.007		
anzkon_1			-1.184526	0.008		
bik_9					.0839578	0.494
bik_8					.1221679	0.229
bik_7					.1562988	0.159
bik_6					0744365	0.661
bik_5					.0639389	0.624
bik_4					0953616	0.441
bik_3					.2291608	0.065
bik_2					.3371748	0.114
bik_1					.2405741	0.513
bundesId_16					.3687664	0.034
bundesId_15					.3419459	0.037
bundesId_14					.5582558	0.000
bundesId_13	1				0014713	0.994

6.4 Propensity to participate - first-time interviewed split-off households

This step calculated the propensities to participate for new split-off households, i.e., households that are included in the panel due to the relocation of one individual of the panel sample in a new household. Here, only split-off households that had not been interviewed in the previous waves were considered. This condition means that the participation propensities for first-time participating split-off households were modeled separately following the criterion of originating in wave 7 (split-off W7 households) or originating in wave 8 (split-off W8 households). The probability of re-participation was estimated via logit models for availability and participation. Missing time-stable information on the household reference person (HRP) was added from the previous wave when necessary. The estimated propensities of the two models were multiplied. The reciprocal value of the product for the split-off households can also be found in the variable *hpbleib*.

Table 37: Variable overview, codes and reference categories for the logit models of the split-off households participating for the first time (waves 7 and 8)

Variable code and	Explanation
reference category	
alter_1 (Split W7)	Household reference person (HRP) younger than 30 years
alter_2 (Split W7)	HRP 30-39 years of age
alter_4 (Split W7)	HRP 50-59 years of age
alter_5 (Split W7)	HRP 60 years and older
Reference category	HRP 40-49 years of age
(Split W7)	
alter_1 (Split W8)	Household reference person (HRP) younger than 30 years
alter_2 (Split W8)	HRP 30-39 years of age
alter_3 (Split W8)	HRP 40-49 years of age
Reference category	HRP 50 years or older
(Split W8)	
sex_1	HRP male
Reference category	HRP female
nichtdeutsch	HRP has nationality other than German
Reference category	HRP has German nationality or missing information
schulbil_1	School qualification HRP: no qualification, lower secondary school
schulbil_3	School qualification HRP: college/university qualification
Reference category	School qualification HRP: intermediate secondary school/still pupil
stichprobe_ba	BA samples (incl. BA refreshment samples and BA replenishment sample)
Reference category	Microm sample (incl. EWO replenishment sample)
anzkon_1	Number of contact attempts CATI/CAPI: 1 contact attempt
anzkon_3	Number of contact attempts CATI/CAPI: 4-9 contact attempts
anzkon_4	Number of contact attempts CATI/CAPI: 10 and more contact attempts
Reference category	Number of contact attempts CATI/CAPI: 2-3 contact attempts

Table 38: Logit models on the first participation of split-off wave 7 households for availability and participation

	Contac	t	Partici	pation
	Coef.	р	Coef.	р
alter_1	.2186718	0.806	.6429134	0.164
alter_2	.5447315	0.636	5328432	0.376
alter_4	1546655	0.816	.2510912	0.522
alter_5	0872996	0.926	689072	0.324
sex_1	1.269252	0.119	.2484257	0.475
nichtdeutsch	1842727	0.870	1996356	0.572
schulbil_1	9716332	0.157	5046387	0.270
schulbil_3	-1.100244	0.135	.6429134	0.164
anzkon_1	-1.79413	0.156		
anzkon_3	-1.736062	0.129		
anzkon_4	-2.689806	0.013		
stichprobe_ba	.3452392	0.551	.0117965	0.974
cons	4.820792	0.000	-1.452123	0.000
n	288		27	2
Log likelihood	-52.7417	11	-127.4	2486
Pseudo R ²	0.1465		0.02	292

Table 39: Logit models on the first participation of split-off wave 8 households for availability and participation

	Contac	:t	Participation	on
	Coef.	р	Coef.	р
alter_1	4002775	0.560	7905956	0.021
alter_2	-1.408381	0.030	-1.097956	0.023
alter_3	-1.175005	0.030	2172006	0.425
sex_1	.1939784	0.687	.0109715	0.964
nichtdeutsch	.1101749	0.892	7180803	0.168
schulbil_1	2146899	0.672	.0069959	0.979
schulbil_3	3183983	0.575	1339439	0.653
anzkon_1	-1.22563	0.015		
anzkon_3	1.323306	0.229		
anzkon_4	1320254	0.859		
stichprobe_ba	1497073	0.779	2500805	0.321
cons	3.946946	0.000	2304526	0.374
n	400		373	
Log likelihood	-86.7622	26	-226.7743	4
Pseudo R ²	0.1223		0.0352	

6.5 Nonresponse weighting for households from the BA refreshment sample and the BA panel replenishment sample of wave 8

Again, a two-stage nonresponse modeling for the households from the refreshment sample of BA new inflows into UB II receipt (sample = 11) was performed (availability and participation) similar to the wave 7 refreshment sample. The participation probability derived from this procedure can be found in variable $prop_t0$.

Table 40: Variable overview, codes and reference categories for the logit models of the BA refreshment sample of wave 8

Variable and and	Evalenation
Variable code and	Explanation
reference category	
alter_1	HRP 30-39 years of age
alter_2	HRP 40-49 years of age
alter_4	HRP 50-65 years of age
Reference category	Household reference person (HRP) younger than 30 years
sex_1	HRP male
Reference category	HRP female
nichtdeutsch	HRP has nationality other than German
Reference category	HRP has German nationality or missing information
schulbil_1	School qualification HRP: no qualification
schulbil_2	School qualification HRP: lower secondary school
schulbil_4	School qualification HRP: college/university qualification
schulbil_5	School qualification HRP: Details refused
Reference category	School qualification HRP: intermediate secondary school/still pupil
anz_persBG_2	Number of individuals in the benefit unit: 2 individuals
anz persBG 3	Number of individuals in the benefit unit: 3 and more individuals
Reference category	Number of individuals in the benefit unit: 1 individual
anz_verwfBG_1	Number of individuals capable of work in the benefit unit: none
anz_verwfBG_3	Number of individuals capable of work in the benefit unit: 2 and more individu-
	als
Reference category	Number of individuals capable of work in the benefit unit: 1 individual
BG_typ_2	Type of benefit unit: single parent
BG_typ_3	Type of benefit unit: couple without children
BG_typ_4	Type of benefit unit: couple with children under the age of 18
BG_typ_5	Type of benefit unit: other benefit unit
Reference category	Type of benefit unit: single
famstand_2	Marital status: married/ widowed
famstand_3	Marital status: widowed
famstand_4	Marital status: divorced
famstand_5	Marital status: separated
Reference category	Marital status: single
blneualt_2	Neue Bundesländer
Reference category	Alte Bundesländer
bundesId_1	Federal state: Schleswig-Holstein
bundesId_2	Federal state: Hamburg
bundesId_3	Federal state: Lower-Saxony
bundesId_4	Federal state: Bremen
bundesId_6	Federal state: Hesse
bundesId_7	Federal state: Rhineland-Palatinate
bundesId_8	Federal state: Baden-Wuerttemberg
bundesId_9	Federal state: Bavaria
bundesId_10	Federal state: Saarland
bundesId_11	Federal state: Berlin
bundesId_12	Federal state: Brandenburg
bundesId_13	Federal state: Mecklenburg-Vorpommern
bundesId_14	Federal state: Saxony
bundesId_15	Federal state: Saxony-Anhalt
bundesId_16	Federal state: Thuringia
Reference category	Federal state: North Rhine-Westphalia BIK size class of municipality: population of less than 2,000 to under 5,000
bik_1	(BIK-Region size classes 1 and 2 combined)
bik_2	BIK size class of municipality: population of 5,000 to under 20,000
bik_3	BIK size class of municipality: population of 3,000 to under 50,000
DIK_0	Dirt size diass of municipality, population of 20,000 to under 50,000

bik_4	BIK size class of municipality: population of 50,000 to under 100,000 STYP 2/3/4
bik_5	BIK size class of municipality: population of 50,000 to under 100,000 STYP 1
bik_6	BIK size class of municipality: population of 100,000 to under 500,000 STYP 2/3/4
bik_7	BIK size class of municipality: population of 100,000 to under 500,000 STYP 1
bik_8	BIK size class of municipality: population of 500,000 and more STYP 2/ 3/ 4
Reference category	BIK size class of municipality: population of 500,000 and more STYP 1
anzkon_1	Number of contact attempts CATI/CAPI: 1 contact attempt
anzkon_3	Number of contact attempts CATI/CAPI: 4-9 contact attempts
anzkon_4	Number of contact attempts CATI/CAPI: 10 and more contact attempts
Reference category	Number of contact attempts CATI/CAPI: 2-3 contact attempts

Table 41: Logit models on the first participation for availability and participation of the BA refreshment sample and BA replenishment sample of wave 8

	Kontakt		Teilnah	me
	Coef.	р	Coef.	р
alter_2	1405946	0.614	.2048318	0.089
alter_3	.5396423	0.170	.2950543	0.028
alter_4	.6997737	0.105	.3339531	0.018
sex_1	2451695	0.336	.0181324	0.849
nichtdeutsch	2260628	0.379	1680871	0.125
schulbil_1	.7509232	0.349	1363014	0.610
schulbil_2	.1621743	0.673	0939912	0.532
schulbil_4	.5384372	0.247	.695274	0.000
schulbil_5	204081	0.522	.0309657	0.815
anz_persBG_2	.1059181	0.868	.3401312	0.288
anz_persBG_3	.2508494	0.753	.5539441	0.130
anz_verwfBG_1	1.295982	0.240	.3806506	0.304
anz_verwfBG_3	1759575	0.776	0646851	0.775
BG_typ_2	3183033	0.639	1130187	0.737
BG_typ_3	.0969895	0.910	.1684159	0.627
BG_typ_4	.4056285	0.651	0381731	0.919
BG_typ_5	-1.25177	0.008	3676174	0.199
famstand_2	.5822148	0.230	4722448	0.007
famstand_3	0473334	0.911	0664187	0.676
famstand_4	.1751901	0.683	2889146	0.097
famstand_5	171751	0.788	.1765358	0.471
blneualt_2	1557725	0.585		
bundesId_1			429485	0.117
bundesId_2			.4036221	0.125
bundesId_3			.1560445	0.313
bundesId_4			-1.68201	0.022
bundesId_6			2347011	0.211
bundesId_7			.1914346	0.369
bundesId_8			.0742857	0.643
bundesId_9			0015326	0.992
bundesld_10			4544752	0.220
bundesld_11			0804902	0.677
bundesId_12			1156148	0.649
bundesId_13			.3277181	0.304
bundesId_14			.1923111	0.416
bundesId_15			2994055	0.296
bundesId_16			.4810864	0.057
bik10_1	.6142936	0.562	.7257036	0.011
bik10_2	2378323	0.621	.3241073	0.080
bik10_3	.2841558	0.589	.3871612	0.026
_ bik10_4	.4995741	0.509	.2595302	0.209
bik10_5	-1.319107	0.007	3849403	0.214
bik10_6	2075103	0.587	.3313735	0.036
bik10_7	4108475	0.168	.1962304	0.158
bik10_8	6187556	0.093	.3555459	0.040
anzkon_1	-1.094016	0.184		
anzkon_3	7711104	0.258		
		0.000		

cons	5.960152	0.000	-1.49303	0.000
n	31	34	30	32
Log likelihood	-344.	5467	-1682	.0394
Pseudo R ²	0.23	338	0.03	358

6.6 Propensity to participate again - individuals

The decisive longitudinal weight is not the household but the individual-level weight because these units are stable over time. The propensities to participate again for individuals in wave 8 were estimated using additional personal characteristics via logit models for willingness to participate in the panel, availability and participation. The dependence of the personal sample conveyed via the household context and correction of the estimation of standard errors made necessary by it were considered in these models by clustering the error terms at the household level. The predicted propensities of the models were multiplied. The reciprocal value of this product can be found in variable *ppbleib*. The longitudinal weight for an individual for the period [t₁; t₂; t₃; t₄; t₅; t₆, t₇, t₈] across all six waves can be obtained as the product of the cross-sectional weight to t₁, *ppbleib* (wave 1 to wave 2) and *ppbleib* (wave 2 to wave 3, etc.).

Table 42: Variable overview, codes and reference categories for the logit models of re-participating individuals

Variable code and reference category alter_1
alter_1 alter_2 alter_4 alter_5 Reference category sex_1 Reference category nichtdeutsch Reference category schulbil_1 School qualification individual: or qualification School qualification individual: of the health state of the individual: val gesundheit_5 Reference category gesundheit_5 Reference category gesundheit_5 Reference category gesundheit_1 gesundheit_5 Reference category gesundheit_5 Reference category gesundheit_6 Reference category gesundheit_7 gesundheit_1 gesundheit_1 gesundheit_5 Reference category School qualification of the health state of the individual: not so good gesundheit_5 Reference category Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale Subjective evaluation of the health state of the individual: sale value 0-2 General life satisfaction of the individual: scale value 0-2 General life satisfaction of the individual: scale value 0-2 General life satisfaction of the individual: scale value 0-3 Number of individuals in the household aged 0-3 years Number of individuals in the household aged 4-6 years Number of individuals in the household aged 4-6 years Number of individuals in the household aged 65 years and older Number of individuals in the household aged 15-64 years Type of residential property: tenant, missing information Number of "don't know" and "det
alter_2 alter_4 alter_5 Reference category Individual 50-64 years of age Individual 50-64 years of age Individual 65 years and older Reference category Individual male Reference category Individual has nationality other than German Individual has German nationality or missing information Schulbil_1 School qualification individual: no qualification School qualification individual: college/university qualification School qualification individual: intermediate secondary school/still pupil gesundheit_1 gesundheit_2 gesundheit_2 gesundheit_5 Reference category zufrieden_1 zufrieden_1 zufrieden_2 zufrieden_4 Reference category anz_0_3 anz_4_6 anz_7_14 anz_65 Reference category Reference category Reference category Reference category Type of residential property: proprietor Reference category Reference category Type of residential property: tenant, missing information Reference category Reference category Type of residential property: tenant, missing information Reference category Reference ca
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gesundheit_5 Reference category zufrieden_1 zufrieden_2 zufrieden_4 Reference category anz_0_3 anz_4_6 anz_7_14 anz_65 Reference category Eigentum Reference category gesundheit_5 Reference category Evaluation of the health state of the individual: satisfactory Subjective evaluation of the health state of the individual: satisfactory General life satisfaction of the individual: scale value 0-2 Zufrieden_4 Reference category General life satisfaction of the individual: scale value 9-10 Reference category Number of individuals in the household aged 0-3 years Number of individuals in the household aged 4-6 years Number of individuals in the household aged 7-14 years Number of individuals in the household aged 65 years and older Number of individuals in the household aged 15-64 years eigentum Reference category Type of residential property: proprietor Reference category Type of residential property: tenant, missing information Number of "don't know" and "details refused" responses in household and per-
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zufrieden_1 zufrieden_2 general life satisfaction of the individual: scale value 0-2 zufrieden_4 Reference category anz_0_3 anz_4_6 anz_7_14 anz_65 Reference category Reference category eigentum Reference category Referenc
zufrieden_2 zufrieden_4 Reference category anz_0_3 anz_4_6 anz_7_14 anz_65 Reference category Reference category eigentum Reference category Reference category eigentum Reference category Reference category Number of individuals in the household aged 4-6 years Number of individuals in the household aged 7-14 years Number of individuals in the household aged 65 years and older Number of individuals in the household aged 15-64 years Type of residential property: proprietor Reference category Number of "don't know" and "details refused" responses in household and per-
zufrieden_4 Reference category General life satisfaction of the individual: scale value 9-10 General life satisfaction of the individual: scale value 6-8 anz_0_3 anz_4_6 anz_7_14 anz_65 Reference category Reference category eigentum Reference category Number of individuals in the household aged 4-6 years Number of individuals in the household aged 7-14 years Number of individuals in the household aged 65 years and older Number of individuals in the household aged 15-64 years Type of residential property: proprietor Reference category Number of "don't know" and "details refused" responses in household and per-
Reference category anz_0_3 anz_4_6 anz_7_14 anz_65 Reference category Reference category eigentum Reference category wnka_1 Reference category General life satisfaction of the individual: scale value 6-8 Number of individuals in the household aged 0-3 years Number of individuals in the household aged 4-6 years Number of individuals in the household aged 7-14 years Number of individuals in the household aged 65 years and older Number of individuals in the household aged 15-64 years Type of residential property: proprietor Reference category Number of "don't know" and "details refused" responses in household and per-
anz_0_3 anz_4_6 anz_7_14 anz_65 Reference category eigentum Reference category wnka_1 Number of individuals in the household aged 0-3 years Number of individuals in the household aged 7-14 years Number of individuals in the household aged 65 years and older Number of individuals in the household aged 15-64 years Type of residential property: proprietor Type of residential property: tenant, missing information Number of "don't know" and "details refused" responses in household and per-
anz_4_6 anz_7_14 anz_65 Reference category eigentum Reference category wnka_1 Number of individuals in the household aged 4-6 years Number of individuals in the household aged 65 years and older Number of individuals in the household aged 15-64 years Type of residential property: proprietor Type of residential property: tenant, missing information Number of "don't know" and "details refused" responses in household and per-
anz_7_14 anz_65 Reference category eigentum Reference category wnka_1 Number of individuals in the household aged 7-14 years Number of individuals in the household aged 65 years and older Number of individuals in the household aged 15-64 years Type of residential property: proprietor Type of residential property: tenant, missing information Number of "don't know" and "details refused" responses in household and per-
anz_65 Reference category Number of individuals in the household aged 15-64 years Type of residential property: proprietor Type of residential property: tenant, missing information Number of "don't know" and "details refused" responses in household and per-
Reference category eigentum Reference category Type of residential property: proprietor Type of residential property: tenant, missing information wnka_1 Number of "don't know" and "details refused" responses in household and per-
eigentum Reference category Type of residential property: proprietor Type of residential property: tenant, missing information Wnka_1 Number of "don't know" and "details refused" responses in household and per-
Reference category Whka_1 Type of residential property: tenant, missing information Number of "don't know" and "details refused" responses in household and per-
wnka_1 Number of "don't know" and "details refused" responses in household and per-
sonal interviews of the individual: none
wnka_3 Number of "don't know" and "details refused" responses in household and per-
sonal interviews of the individual: 11 and more
Reference category Number of "don't know" and "details refused" responses in household and per-
sonal interviews of the individual: 1-10
hhincome_1 Household income: up to EUR 870
hhincome_2 Household income: EUR 871-1,400
hhincome_4 Household income: more than EUR 2,200
Reference category Household income: EUR 1,401-2,200
alg2_1 UB II receipt of the household: current receipt of UB II
Reference category UB II receipt of the household: no current receipt of UB II
stichprobe1 BA sample
stichprobe3 Refreshment sample (BA) wave 2
stichprobed Refreshment sample (BA) wave 3
stichprobe5 Refreshment sample (BA) wave 4
stichprobe6 Replenishment sample (EWO) wave 5
stichprobe7 Replenishment sample (BA) wave 5
stichprobe8 Refreshment sample (BA) wave 5
stichprobe9 Refreshment sample (BA) wave 6
stichprobe10 Refreshment sample (BA) wave 7
Reference category Microm sample
anzkon_1 Number of contact attempts CATI/CAPI: 1 contact attempt

anzkon_3 anzkon_4 Reference category blneualt_2 Reference category bundesld_1 bundesld_2 Number of contact attempts CATI/CAPI: 4-9 contact attempts Number of contact attempts CATI/CAPI: 10 and more contact attempts Number of contact attempts CATI/CAPI: 2-3 contact attempts New federal states Old federal states Federal state: Schleswig-Holstein Federal state: Hamburg	
Reference category Number of contact attempts CATI/CAPI: 2-3 contact attempts blneualt_2 Reference category Old federal states bundesId_1 Federal state: Schleswig-Holstein	
blneualt_2 New federal states Reference category Old federal states bundesId_1 Federal state: Schleswig-Holstein	
Reference category Old federal states bundesId_1 Federal state: Schleswig-Holstein	
bundesld_1 Federal state: Schleswig-Holstein	
bundesId_3 Federal state: Lower-Saxony bundesId_4 Federal state: Bremen	

bundesId_7 Federal state: Rhineland-Palatinate	
bundesId_8 Federal state: Baden-Wuerttemberg	
bundesId_9 Federal state: Bavaria	
bundesId_10 Federal state: Saarland	
bundesId_11 Federal state: Berlin	
bundesId_12 Federal state: Brandenburg	
bundesId_13 Federal state: Mecklenburg-Vorpommern	
bundesId_14 Federal state: Saxony	
bundesId_15 Federal state: Saxony-Anhalt	
bundesId_16 Federal state: Thuringia	
Reference category Federal state: North Rhine-Westphalia	
bik_1u2 BIK size class of municipality: population of less than 5,000	
bik_3 BIK size class of municipality: population of 5,000 to under 20,000	
bik_4 BIK size class of municipality: population of 20,000 to under 50,000	
bik_5 BIK size class of municipality: population of 50,000 to under 100,000 STYP	
2/3/4	
bik_6 BIK size class of municipality: population of 50,000 to under 100,000 STYP 1	
bik_7 BIK size class of municipality: population of 100,000 to under 500,000 STYP	
2/3/4	
bik_8 BIK size class of municipality: population of 100,000 to under 500,000 STYP 1	
bik_9 BIK size class of municipality: population of 500,000 and more STYP 2/ 3/ 4	
Reference category BIK size class of municipality: population of 500,000 and more STYP 1	

Table 43: Logit models on re-participation for willingness to participate in a panel, availability and participation

	Willingness to p	-				
	the panel		Contact		Participation	
	Coef.	р	Coef.	р	Coef.	р
alter_1	.3731808	0.083	4498028	0.033	5934258	0.000
alter_2	.1861603	0.451	25576	0.336	2663779	0.001
alter_4	.3099163	0.123	.0780441	0.746	.2498996	0.001
alter_5	.3525935	0.340	-1.205538	0.087	.3074886	0.036
sex_1	034654	0.706	2984979	0.023	0412031	0.299
nichtdeutsch	389922	0.217	5775447	0.034	3641418	0.000
schulbil_1	1819868	0.526	3373216	0.313	2501645	0.026
schulbil_2	0176355	0.918	.2221906	0.252	1549801	0.008
schulbil_4	0208454	0.906	.1056568	0.601	.0836366	0.184
gesundheit_1	3762272	0.085	.141066	0.597	1572324	0.059
gesundheit_2	2341467	0.155	.195736	0.297	0337055	0.554
gesundheit_4	.1280641	0.529	.3842529	0.103	.1408004	0.043
gesundheit_5	.0865837	0.768	1825996	0.502	.0063965	0.951
zufrieden_1	3230792	0.360	8229373	0.016	0442491	0.772
zufrieden_2	1222411	0.525	172912	0.381	.0434013	0.532
zufrieden_4	.0175464	0.929	.0237287	0.919	.1170681	0.072
alg2_1	1509824	0.575	.1509003	0.460	.0027283	0.971
eigentum	eigentum	0137989	0.948	.2750829	0.447	.0661741
anz_0_3	.0988017	0.705	3618638	0.134	.083589	0.282
anz_4_6	.1645093	0.544	0772208	0.807	.1038188	0.282
anz_7_14	.3803173	0.041	.289996	0.178	083367	0.117
anz_65	.0462208	0.854	.7565467	0.162	.0747204	0.408
wnka_1	.2125434	0.196	.1695942	0.333	.1415341	0.008
wnka_3	1868126	0.338	.3773201	0.154	209269	0.005
hhincome_1	.0407814	0.886	3016776	0.287	.1176784	0.218
hhincome_2	.1406489	0.609	3785743	0.135	0252244	0.758
hhincome_4	2253006	0.403	1.126702	0.003	.0059195	0.942
stichprobe1	3378663	0.297	6858126	0.077	2629011	0.006
stichprobe3	1.796599	0.077	4503976	0.386	3271123	0.032
stichprobe4	.7140117	0.277	6435326	0.132	1410057	0.325
stichprobe5	1151436	0.842	5347784	0.273	058773	0.703
stichprobe6	9952443	0.000	.2170834	0.726	2003117	0.067
stichprobe7	4753187	0.224	3682172	0.407	1994429	0.132
stichprobe8	.2561859	0.618	5096424	0.273	3544548	0.015
stichprobe9	.7322876	0.173	9717933	0.020	2226851	0.083
blneualt_2	-1.018365	0.002	3513242	0.395	4909782	0.000
anzkon_1			-1.350919	0.004		
anzkon_3			-1.134874	0.001		
anzkon_4			-3.009348	0.000		
bundesId_1					0837591	0.606
bundesId_2					1118839	0.590
bundesId_3					.0715545	0.505
bundesId_4					0564127	0.837
bundesId_6					2114821	0.080
bundesld_7					3275695	0.020
bundesld_8					165375	0.126

Log likelihood Pseudo R ²	-1188.6581 0.0428		-819.99036 0.2038		-6342.5734 0.0442	
n	1444		1420		140	
cons	4.278763	0.000	6.355315	0.000	1.715789	0.000
bik_9			0369276	0.914	044612	0.696
bik_8			0238623	0.933	.1210278	0.224
bik_7			.2919476	0.377	.1088264	0.311
bik_6			.0098811	0.984	049989	0.759
bik_5			192275	0.585	1016647	0.419
bik_4			.0451623	0.103	1498607	0.204
bik_3			5129623	0.105	.0536751	0.136
bik_1 bik_2					0571627 .2814183	0.841 0.136
bik_1u2			.0783543	0.912	0574607	0.044
bundesld_16			0700540	0.040	.3892405	0.018
bundesld_15					.2678448	0.071
bundesId_14					.5333787	0.000
bundesld_13					1252079	0.519
bundesld_12					.4676789	0.004
bundesld_11					.1460402	0.308
bundesId_10					.1311072	0.625
bundesld_9					.1346581	0.197

Note: The correction of standard errors was made by means of an estimation clustered across households.

6.7 Integration of the weights to yield the total weight before calibration

This step again involved combining the household weights of the new replenishment and panel household samples (including the refreshments from waves 2 to 7) that were modified by the non-response modeling. The multiple selection probability of a sampled benefit recipient living in the same household as a benefit recipient in previous years without being a member of the benefit unit himself/herself was ignored. The new design weights of the benefit recipient sample are projected in the cross-section to all individuals who were living in a household that included at least one benefit unit in either July 2006, in July 2007, in July 2008, in July 2009, in July 2010, in July 2011, in July 2012, or in July 2013. It is only when calculating new weights for the total sample that it becomes necessary to adjust the weights for all households receiving benefits in July 2013. For this adjustment, the inclusion probability in the other sample was estimated for cases from the Microm sample (wave 1), EWO replenishment sample (wave 5) and new refreshment sample (wave 8). For cases from the refreshment sample, the mean wave 1 selection probability in the Microm sample respectively, the mean wave 5 selection probability of EWO refreshment in the respective postcode area and the average participation probability (for waves 1 to 8) in that sample were assumed. For cases from the Microm sample, if they are (according to survey data) new recipients of UB II who first received the benefit between the last five sampling dates (waves 2, 3, 4, 5, 6, 7 and 8), the mean selection probability of a household in the refreshment sample in the respective postcode area and the average participation probability in that sample were assumed. The two weights were then integrated to form a new total weight.

6.8 Integration of temporary non-responses (households)

Households that skipped one wave - i.e., did not participate (temporary non-responses) - could participate again in wave 8, as was possible in wave 7. No longitudinal weights are calculated for these households, i.e., (weighted) longitudinal evaluations can only be made with participants across all waves in question. Non-participation of a household can only occur in one wave; if a household skips two consecutive waves, it will no longer be contacted. To calculate mutual cross-sectional weights including the temporary non-responses, there was a convex combination of the modified household weights of the temporary non-responses and the modified household weights of the panel household sample (not of the refreshment sample) before calibration. Thus, the convex combination of the household weights was made before calibration; the calibration was then made with the new combined household weights.

Although the household weights modified by non-response modeling already serve as projection factors for the panel and refreshment sample, it was necessary to calculate such modified household weights as an estimator for the respective population again for the temporary non-responses. The starting point was the calibrated household weights of wave 6 (wave 7 is the temporary non-response).

For temporary non-responses, the probability of non-participation in wave 7 in case of participation in wave 6 (non-participation propensities wave 7) and the probability of participation in wave 8 in case of a non-participation in wave 7 (participation propensities wave 8) was determined. The probability of non-participation in wave 7 is calculated from 1– participation probability in wave 7.

The described propensities for participation and non-participation were estimated via logit models. The estimated probabilities of the respective models were multiplied. The modified household weight of the temporary non-responses was then calculated by multiplying the calibrated household weights of wave 6 by the reciprocal value of this product.

Table 44: Variable overview, codes and reference categories for the logit models of the temporary non-responses

Variable code and	Explanation
reference category	
alter_1	Household reference person (HRP) younger than 30 years
alter_2	HRP 30-39 years of age
alter_3	HRP 40-49 years of age
alter_5	HRP 65 years and older
Reference category	HRP 50-64 years of age
sex_1	HRP male
Reference category	HRP female
nichtdeutsch	HRP has nationality other than German
Reference category	HRP has German nationality or missing information
schulbil_1	School qualification HRP: no qualification
schulbil_2	School qualification HRP: lower secondary school
schulbil_4	School qualification HRP: college/university qualification
Reference category	School qualification HRP: intermediate secondary school/still pupil
gesundheit_1	Subjective evaluation of the health state of the HRP: very good
gesundheit_3	, ,
_	Subjective evaluation of the health state of the HRP: satisfactory
gesundheit_4 gesundheit_5	Subjective evaluation of the health state of the HRP: not so good Subjective evaluation of the health state of the HRP: bad
Reference category	
zufrieden_1	Subjective evaluation of the health state of the HRP: good General life satisfaction HRP: scale value 0-2
_	
zufrieden_2	General life satisfaction HRP: scale value 3-5
zufrieden_4	General life satisfaction HRP: scale value 9-10
Reference category	General life satisfaction HRP: scale value 6-8
anz_0_3	Number of individuals in the household aged 0-3 years
anz_4_6	Number of individuals in the household aged 4-6 years
anz_7_14	Number of individuals in the household aged 7-14 years
anz_65	Number of individuals in the household aged 65 years and older
eigentum	Type of residential property: proprietor
Reference category	Type of residential property: tenant, missing information
wnka_1	Number of "don't know" and "details refused" responses in household and per-
	sonal interviews of the HRP: none
wnka_3	Number of "don't know" and "details refused" responses in household and per-
	sonal interviews of the HRP: 11 and more
Reference category	Number of "don't know" and "details refused" responses in household and per-
	sonal interviews of the HRP: 1-10
hhincome_1	Household income: up to EUR 870
hhincome_2	Household income: EUR 871-1,400
hhincome_4	Household income: more than EUR 2,200
Reference category	Household income: EUR 1,401-2,200
alg2_1	UB II receipt of the household: current receipt of UB II
Reference category	UB II receipt of the household: no current receipt of UB II
bundesId_1	Federal state: Schleswig-Holstein
bundesId_2	Federal state: Hamburg
bundesId_3	Federal state: Lower-Saxony
bundesId_4	Federal state: Bremen
bundesId_6	Federal state: Hesse
bundesId_7	Federal state: Rhineland-Palatinate
bundesId_8	Federal state: Baden-Wuerttemberg
bundesId_9	Federal state: Bavaria
bundesId_10	Federal state: Saarland
bundesId_11	Federal state: Berlin
bundesId_12	Federal state: Brandenburg
bundesId_13	Federal state: Mecklenburg-Vorpommern

bundesId_14	Federal state: Saxony
bundesId_15	Federal state: Saxony-Anhalt
bundesId_16	Federal state: Thuringia
Reference category	Federal state: North Rhine-Westphalia
bik_1	BIK size class of municipality: population of less than 2,000
bik_2	BIK size class of municipality: population of 2,000 to under 5,000
bik_3	BIK size class of municipality: population of 5,000 to under 20,000
bik_4	BIK size class of municipality: population of 20,000 to under 50,000
bik_5	BIK size class of municipality: population of 50,000 to under 100,000 STYP
hile C	2/3/4
bik_6	BIK size class of municipality: population of 50,000 to under 100,000 STYP 1
bik_7	BIK size class of municipality: population of 100,000 to under 500,000 STYP 2/3/4
bik_8	BIK size class of municipality: population of 100,000 to under 500,000 STYP 1
bik_9	BIK size class of municipality: population of 500,000 and more STYP 2/ 3/ 4
Reference category	BIK size class of municipality: population of 500,000 and more STYP 1

Table 45: Logit models of temporary non-responses

	· · ·	Re-participation in wave 7 to deter-		Re-participation in wave 8 in case of		
	mine the W7 no	n-participation	non-participation in wave 7			
	probability (1-partic	cipation probabil-				
	ity W	/7)				
	Coef.	р	Coef.	р		
alter_1	9562101	0.000	1336722	0.525		
alter_2	5055482	0.000	212912	0.346		
alter_3	3505959	0.000	166517	0.410		
alter_5	0824413	0.672	5220067	0.351		
sex_1	1085204	0.062	.0553538	0.696		
not German	4466195	0.000	3971801	0.108		
schulbil_1	2661753	0.032	.0017707	0.995		
schulbil_2	0256426	0.720	0863159	0.623		
schulbil_4	.0587362	0.436	.0150632	0.933		
gesundheit_1	1381399	0.166	3050701	0.224		
gesundheit_3	.0464321	0.516	00438	0.980		
gesundheit_4	.064412	0.456	.0151797	0.942		
gesundheit_5	0926904	0.443	.3349556	0.238		
zufrieden_1	3435544	0.018	5331863	0.163		
zufrieden_2	0605713	0.416	2114443	0.248		
zufrieden_4	.0048555	0.952	2925502	0.150		
anz_0_3	.0563779	0.489	.1807784	0.320		
anz_4_6	.03219	0.729	0142986	0.948		
anz_7_14	0157681	0.766	.0177442	0.889		
anz_65	.0560764	0.633	1831435	0.582		
eigentum	.4219302	0.000	0975795	0.652		
wnka_1	.180648	0.003	.0102302	0.945		
wnka_3	1947654	0.025	0315262	0.881		
hhincome_1	0915989	0.312	.1539596	0.478		
hhincome_2	1097297	0.166	0782459	0.693		
hhincome_4	.1943243	0.024	.2669633	0.196		
alg2_1	.1105065	0.024	1688061	0.323		
bundesld_1	0228193	0.887	0274885	0.945		
bundesId_2	.1334405	0.498	8142468	0.197		
bundesId_3	.2275349	0.498	3584522	0.185		
bundesId_4	.0531099	0.848	-1.092473	0.103		
bundesId_6	.2021019	0.048	7353688	0.297		
bundesId_7	1335254	0.140	.1125756	0.736		
bundesid_8	106536	0.302	0779805	0.750		
bundesId_9	.2242085	0.028	3999144	0.130		
bundesId_10	.114702	0.653	.792722	0.130		
bundesid_10	.3204908	0.019	.2995406	0.130		
bundesid_12	.2340098	0.019	.222262	0.508		
bundesId_13		0.114		0.934		
bundesId_14	.1465833	0.462	0400327	0.934		
	.5236453		.1218303			
bundesId_15	.5997764	0.000	.0618368 1197859	0.875		
bundesId_16	.0921793	0.557		0.752		
bik_1	.3750056	0.243	8242102	0.442		
bik_2	.1879401	0.312	1715179	0.731		
bik_3	.1632605	0.184	114985	0.719		
bik_4	.3410161	0.003	.3044761	0.274		
bik_5	.0657903	0.586	.3689953	0.185		
bik_6	.4797925	0.005	1508579	0.729		
bik_7	.0153217	0.882	.2356501	0.343		

bik_8	.2081402	0.025	.0598795	0.794	
bik_9	.1125465	0.358	.1413202	0.639	
cons	1.602041	0.000	-1.298363	0.000	
n	9513	3	1624		
Log likelihood	-4130.	502	-710.95494		
Pseudo R ²	0.0499 0.0333			0.0333	

The convex combination of the weights of the participants across all waves (panel household sample) and the temporary non-responses was made for the weights of all three subsamples i (Microm, BA and total) by multiplying the respective modified household weights by the share of the panel household sample or the temporary non-responses from the total sample, i.e., the sum of the panel household sample and temporary non-responses:

```
 dw_i hh_{temp.Ausfall} * (n_{temp.Ausfall \, i} / (n_{temp.Ausfall \, i} + n_{Bestand \, i})) \ for \ temporary \ non-responses \ and \\ dw_i hh_{Bestand} * (n_{Bestand \, i} / (n_{temp.Ausfall \, i} + n_{Bestand \, i})) \ for \ the \ panel \ household \ sample.
```

6.9 Calibration to the household weight, wave 8, cross-section

Another calibration of the modified design weights, including the non-response weighting at the household level using the GREG procedure to the benchmark values of the Federal Statistical Office for 2013, followed. For households receiving benefits the weights were adjusted to the statistics of the Federal Employment Agency for July 2013. As in the previous year, the increase in UB II receipt since the previous year at the level of benefit units (271,639) was also included as an additional benchmark value in the total sample. Cases in the previous samples from waves 1 to 8 that, according to wave 8 of the survey, were receiving UB II in July 2013, will be projected to the benchmark statistics of the Federal Employment Agency on UB II.

The main objective of weighting is to balance distortions arising from the sample design (with different selection probabilities) and through selective participation or non-participation. By using the weights, population values from the sample can be estimated in an unbiased way. If the weights show a high variance, a large variance of the estimation functions can result. This is the trade-off between bias and variance so typical for statistics. The weighting reduces the bias; however, a too-severe increase in the variance caused by weighting is also to be avoided. Therefore, attempts are made to avoid very large weighting factors (and subsequently, very small factors) whenever possible and to make appropriate corrections to the weights if necessary. Within the framework of the calibration at hand, these corrections are made at two points:

 The input weights for the calibration (the modified design weights after considering non-response analyses) were trimmed before calibration, i.e., they were replaced by new input weights. The maximum and minimum of the trimmed design weights were determined by using particular percentiles of the distribution depending on the distribution of the design weights. • In addition, the interval of weights was limited during calibration, i.e., a maximum and a minimum limit for weights was determined. Here, the total width of the weights was determined; the range of the pure calibration weights can be calculated from the relation of original weights to the trimmed input weight. Notably, narrower limits for the weights result in less variance of the weights and thus less variance of the estimations; too-narrow limits can, however, make the calibration of all benchmark values impossible.

To evaluate the weights, in addition to the average value and the standard deviation, the efficiency measure (E) is described as follows. The efficiency measure E is based on the variance of the weighting factor. The efficiency measure indicates the size of the effective case number of a passive characteristic that does not correlate with active characteristics when using the weight. The effective case number is the number of respondents who would have produced the same sample error in an unlimited random sample given the variance of the characteristic in the sample. The efficiency measure expresses the relation of n to n' as percentage.

6.10 Calibration of the BA sample

The population of the cumulated BA sample of all six waves consists of all of the households in Germany with at least one benefit unit receiving benefits according to SGB II at one of the (until now) eight drawing dates (July 2006, July 2007, July 2008, July 2009, July 2010, July 2011, July 2012 or July 2013). In wave 8, only the benchmark values of the BA statistics from July 2013 are calibrated. The calibration thus only influences the weights of the households from the BA sample in which at least one benefit unit receiving benefits according to SGB II was living in July 2013. The starting points for the calibration were modified design weights, including the non-response weighting. The modified design weights were trimmed at the fifth and ninety-fifth percentiles of their distribution and then rescaled so that they totaled the untrimmed design weights. The projection factors of the trimmed design weights range from 193.95 to 3,957.36. The relation between the total projection factors after calibration and the trimmed design weights was limited downwards to 0.3 and upwards to 2.5. Thus, the total projection factors after calibration lie between a minimum of 58.18 and a maximum of 5,173.65.

A calibration was made for the following characteristics:

Benefit unit basis BA statistics:

- Increase in BU UB II recipients
- Number of BCs receiving benefits according to SGB II by federal states
- Number of BCs receiving benefits according to SGB II by number of individuals under
 65 years of age in the benefit unit and by west/east
- Number of BCs receiving benefits according to SGB II by number of children under 15
 years of age in the benefit unit and by west/east

 Number of BCs receiving benefits according to SGB II consisting of a single parent with child(ren), by west/east

As in the previous year, an additional benchmark was included. This is the increase in UB II recipients since the previous year at the level of benefit units (271,639).

For the calibration, the benchmark variable for each household must have a valid value. Therefore, the very low nonresponse item was imputed before calibration. The imputation was made by means of the average value and the modal value of the respective variable.

Because the imputation only serves the feasibility of the calibration, the imputed values were set back to missing values after the calibration. A projection with the calibrated weights without considering the nonresponse item thus leads to slight deviations from the values as presented in the following.

Table 46: Nominal distributions and distributions after calibration (BA sample, households)

				Distribu-
			Nominal values	tion with
Benchmark fig-	Characteristics benchmark fig-	Unweighted	from BA statis-	calibrated
ure	ure from BA statistics	distribution	tics	weights
Number BCs re-		103	118.563	118.563
ceiving benefits in	Number BCs Schleswig-Holstein			
accordance with	Newskan BO - Handbarr	92	100.757	100.757
SGB II by federal	Number BCs Hamburg	240	207.011	207.044
states (16 catego-	Number BCs Lower-Saxony	348	307.911	307.911
ries)	Trumber Bes Lewer Gazerry	35	50.900	50.900
	Number BCs Bremen	00	00.000	00.000
	Number BCs North Rhine-	835	834.319	834.319
	Westphalia			
	·	164	208.699	208.699
	Number BCs Hesse			
		131	115.320	115.320
	Number BCs Rhineland-Palatinate			
		240	230.330	230.330
	Number BCs Baden-Wuerttemberg			
	Neverle de BO e Bassaria	295	233.291	233.291
	Number BCs Bavaria	54	40.005	40.005
	Number BCs Saarland	54	42.325	42.325
	Number BCs Saananu	256	319.011	319.011
	Number BCs Berlin	250	313.011	313.011
		178	151.077	151.077
	Number BCs Brandenburg			
	Number BCs Mecklenburg-	82	113.269	113.269
	Vorpommern			
		235	240.203	240.203
	Number BCs Saxony			
		191	167.762	167.762
	Number BCs Saxony-Anhalt	4.40	400.000	400.000
	Number DCo Thuringio	140	108.902	108.902
Number of BCs	Number BCs Thuringia Number BCs with 1 individual un-	1.010	1 040 700	1 240 700
receiving benefits	der 65 (west)	1.010	1.240.788	1.240.788
in accordance	Number BCs with 2 individuals un-	556	447.906	447.906
with SGB II by	der 65 (west)	550	447.900	447.900
number of individ-	Number BCs with 3 individuals un-	392	271.585	271.585
uals under 65	der 65 (west)	392	271.565	27 1.363
years of age in the	l ' '	196	165.223	165.223
benefit unit (1, 2,	der 65 (west)	190	100.223	103.223
3, 4, and "5 or	Number BCs with 5 or more indi-	143	116.913	116.913
more") and by	viduals under 65 (west)	143	110.515	110.010
west/east (10 cat-	Number BCs with 1 individual un-	514	661.509	661.509
egories)	der 65 (east)	514	001.009	301.003
,	Number BCs with 2 individuals un-	296	226.439	226.439
	der 65 (east)	250	220.700	220.700
	1 20. 00 (000.)		1	I

	Number BCs with 3 individuals un-	164	114.123	114.123
	der 65 (east)			
	Number BCs with 4 individuals un-	63	61.741	61.741
	der 65 (east)			
	Number BCs with 5 or more indi-	45	36.412	36.412
	viduals under 65 (east)			
Number of BCs	Number BCs without children un-	1.534	1.541.340	1.541.340
receiving benefits	der 15 years of age (west)			
in accordance	Number BCs with 1 child under 15	457	379.401	379.401
with SGB II by	years of age (west)			
number of individ-	Number BCs with 2 children under	210	214.479	214.479
uals under 15	15 years of age (west)			
years of age in the	Number BCs with 3 children under	72	77.350	77.350
benefit unit (0, 1,	15 years of age (west)			
2, 3, "4 or more")	Number BCs with 4 or more chil-	24	29.845	29.845
and by west/east	dren under 15 years of age (west)			
(10 categories)	Number BCs without children un-	819	811.452	811.452
	der 15 years of age (east)			
	Number BCs with 1 child under 15	144	167.142	167.142
	years of age (east)			
	Number BCs with 2 children under	94	84.962	84.962
	15 years of age (east)			
	Number BCs with 3 children under	15	26.203	26.203
	15 years of age (east)			
	Number BCs with 4 or more chil-	10	10.465	10.465
	dren under 15 years of age (east)			
Number BCs re-	Number BCs with a single parent	511	447.085	447.085
ceiving benefits in	(west)			
accordance with	Rest BCs without a single parent	1.786	1.795.330	1.795.330
SGB II consisting	(west)			
of a single parent	Number BCs with a single parent	180	185.487	185.487
with children by	(east)			
west/east (4 cate-	Rest BCs without a single parent	902	914.737	914.737
gories)	(east)			

Table 47: Parameters of distribution of weights

Efficiency measure	46,04%
Number of observations	3265
Maximum	5173,647
Minimum	58,18344
Standard deviation	1080,763
Mean	1008,627
99% percentile	4211,479
95% percentile	3747,411
90% percentile	2747,415
75% percentile	1318,073
50% percentile	507,1952
25% percentile	292,3549
10% percentile	196,9032
5% percentile	169,1027
1% percentile	115,9414

6.11 Population sample

All private households in Germany form the population. The starting points for the calibration were modified design weights, including the nonresponse weighting. The modified design weights were trimmed at the fifth and ninety-fifth percentiles of their distribution and after that rescaled so that they totaled the untrimmed design weights. The projection factors of the trimmed design weights range from 2,671.04 to 37,911.03. The relation between the total projection factors after calibration and the trimmed design weights was limited downwards to 0.1 and upwards to 3.0. Thus, the total projection factors after calibration lie between minimal 1582.73 and maximal 66,535.40.

A calibration was made for the following characteristics:

Benefit units based on BA statistics:

- Number of BCs receiving benefits according to SGB II by federal states
- Number of BCs receiving benefits according to SGB II by number of individuals under
 65 years of age in the benefit unit and by west/east
- Number of BCs receiving benefits according to SGB II by number of children under 15
 years of age in the benefit unit and by west/east
- Number of BCs receiving benefits according to SGB II consisting of a single parent with child(ren), by west/east

Households based on Mikrozensus 2013:

Number of households by federal state and BIK type

- Number of households by household size and west/east
- Number of households by "children under 15 years of age in the household yes/no" and west/east

For the calibration, each benchmark variable for each household must have a valid value. Therefore, the very low nonresponse item was imputed before calibration. The imputation was made by means of the average value and the modal value of the respective variable.

Because the imputation only serves the feasibility of the calibration, the imputed values were set back to missing values after the calibration. A projection with the calibrated weights without considering the nonresponse item thus leads to slight deviations from the values as presented in the following.

Table 48: Nominal distributions and distributions after calibration (population sample, households)

P ,				Distribution
Benchmark figure	Characteristics benchmark figure from BA statistics and Mikrozensus 2013	Unweighted distribution	Nominal values	with cali- brated weights
Number of BCs re-	Number BGs west	114	2.242.415	2.242.414
ceiving benefits in				
accordance with	Number BGs east	47	1.100.224	1.100.226
SGB II by west/east				
Number of BCs re-	Number BCs with 1 individual under	67	1.902.297	1.902.297
ceiving benefits in	65 (west)			
accordance with	Number BCs with 2 individuals under	38	674.345	674.349
SGB II by number	65 (west)			
of individuals under	Number BCs with 3 individuals under	32	385.708	385.721
65 years of age in	65 (west)			
the benefit unit	Number BCs with 4 or more individuals under 65 (west)	24	380.289	380.273
Number of BCs re-	Number BCs without children under	114	2.352.792	2.352.778
ceiving benefits in	15 years of age (west)			
accordance with	Number BCs with 1 child or more	47	989.847	989.862
SGB II by number	under 15 years of age (west)			
of individuals under				
15 years of age in				
the benefit unit				
Number BCs receiv-	N 1 50 W 1 1	37	632.572	632.586
ing benefits in ac-	Number BCs with a single parent	404	0.740.007	0.740.054
cordance with SGB	Rest BCs without a single parent	124	2.710.067	2.710.054
Il consisting of a	Nest BCs without a single parent			
single parent with children				
Number of house-	1.1 bis 1.6	27	455.000	455.000
holds by federal	1.1 bis 1.0	21	433.000	433.000
state and BIK type	1.7 bis 1.10	69	915.000	915.000
(spelling: "Federal				
state. BIK type")	2.10	32	954.000	954.000
	3.1 bis 3.5	95	1.386.000	1.386.000
	3.7 bis 3.8	145	1.369.000	1.369.000
	3.9 bis 3.10	86	1.021.000	1.021.000
	4.8 bis 4.10	20	351.000	351.000
	5.2 bis 5.4	94	1.115.000	1.115.000
	5.5 bis 5.6	91	967.000	967.000
	5.7 bis 5.8	201	2.891.000	2.891.000

5.9 bis 5.10	277	3.503.000	3.503.000
6.1 bis 6.4	70	610.000	610.000
6.5 bis 6.8	81	1.088.000	1.088.000
6.9 bis 6.10	81	1.187.000	1.187.000
7.1 bis 7.6	63	917.000	917.000
7.7 bis 7.10	75	952.000	952.000
8.1 bis 8.4	115	1.208.000	1.208.000
8.5 bis 8.8	120	2.123.000	2.123.000
8.9 bis 8.10	109	1.586.000	1.586.000
9.1 bis 9.4	149	1.494.000	1.494.000
9.5 bis 9.7	142	1.481.000	1.481.000
9.8 bis 9.9	115	1.412.000	1.412.000
9.10	104	1.565.000	1.565.000
10.3 bis 10.8	41	490.000	490.000
11.10	96	1.918.000	1.918.000
12.1 bis 12.4	39	454.000	454.000
12.5 bis 12.7	31	264.000	264.000
12.9 bis 12.10	35	512.000	512.000
13.1 bis 13.6	24	518.000	518.000
13.7 bis 13.9	22	303.000	303.000
14.1 bis 14.4	72	562.000	562.000
14.5 bis 14.8	24	653.000	653.000
14.9 bis 14.10	64	911.000	911.000
15.1 bis 15.4	63	369.000	369.000
15.5 bis 15.7	31	515.000	515.000
15.8 bis 15.9	28	263.000	263.000
16.1 bis 16.4	84	507.000	507.000
1			l l

	16.5 bis 16.8	62	588.000	588.000
Number of house-	Number households with 1 individual	655	12.156.000	12.156.000
holds by household	(west)			
size (1,2,3,4,"5 and	Number households with 2 individu-	966	10.643.000	10.643.000
more individuals")	als (west)			
and west/east (10	Number households with 3 individu-	350	3.929.000	3.929.000
categories)	als (west)			
	Number households with 4 individu-	303	3.142.000	3.142.000
	als (west)			
	Number households with 5 or more	128	1.170.000	1.170.000
	individuals (west)			
	Number households with 1 individual	208	3.601.000	3.601.000
	(east)			
	Number households with 2 individu-	302	2.999.000	2.999.000
	als (east)			
	Number households with 3 individu-	90	1.043.000	1.043.000
	als (east)			
	Number households with 4 individu-	50	536.000	536.000
	als (east)			
	Number households with 5 and more	25	158.000	158000
	individuals (east)			
Number of house-	Number households with children	465	5.504.000	5.504.000
holds by "children	under 15 (west)			
under 15 years of	Number households without children	1.937	25.536.000	25.536.000
age in the house-	under 15 (west)			
hold yes/no" and	Number households with children	102	1.305.000	1.305.000
west/east	under 15 (east)			
	Number households without children	573	7.032.000	7.032.000
	under 15 (east)			

Table 49: Parameters of distribution of weights

1% percentile	1931,518
5% percentile	2676,18
10% percentile	3204,506
25% percentile	5173,547
50% percentile	8963,266
75% percentile	16790,3
90% percentile	30997,21
95% percentile	36254,81
99% percentile	44598,66
Mean	12797,21
Standard deviation	10624,95
Minimum	1582,726
Maximum	66535,4
Number of observa-	3077
Efficiency measure	59,2%

6.12 Total sample

All of the private households in Germany form the population. The starting points for the calibration were modified design weights, including the non-response weighting. The modified design weights were trimmed at the fifth and ninety-fifth percentiles of their distribution and after that rescaled so that they totaled the untrimmed design weights. The projection factors of the trimmed design weights range from 160.31 to 23,384.54. The relation between the total projection factors after calibration and the trimmed design weights was limited downwards to 0.1 and upwards to 7.0. Thus, the total projection factors after calibration lie between min. 16.03 and max. 37,641.57.

A calibration was made for the following characteristics:

Benefit unit basis BA statistics:

- Number of BCs receiving benefits according to SGB II by federal states
- Number of BCs receiving benefits according to SGB II by number of individuals under
 65 years of age in the benefit unit and by west/east
- Number of BCs receiving benefits according to SGB II by number of children under 15
 years of age in the benefit unit and by west/east
- Number of BCs receiving benefits according to SGB II consisting of a single parent with child(ren), by west/east

Household basis Mikrozensus 2013:

- Number of households by federal state and BIK type
- Number of households by household size and west/east
- Number of households by "children under 15 years of age in the household yes/no" and west/east

In addition, the increase in UB II recipients since the previous year at the level of benefit units (271,639) was included as an additional benchmark value in the total sample.

For the calibration, each benchmark variable for each household must have a valid value. Therefore, the very low non-response item was imputed before calibration. The imputation was made by means of the average value and the modal value of the respective variable.

Because the imputation only serves the feasibility of the calibration, the imputed values were set back to missing values after the calibration. A projection with the calibrated weights without considering the non-response item thus leads to slight deviations from the values as presented below.

Table 50: Nominal distributions and distributions after calibration (total sample, households)

	Characteristics benchmark figure			Distribution
Benchmark	from BA statistics and Mikro-	Unweighted	Nominal val-	with calibrat-
figure	zensus 2013	distribution	ues	ed weights
Number BCs	Number BCs Cableauis Halatais	107	118.563	118.563
receiving benefits in ac-	Number BCs Schleswig-Holstein	94	100.757	100.755
cordance with	Number BCs Hamburg	34	100.737	100.733
SGB II by fed-		372	307.911	307.909
eral states (16	Number BCs Lower-Saxony			
categories)		36	50.900	50.899
	Number BCs Bremen			
	Number BCs North Rhine-	885	834.319	834.300
	Westphalia	167	208 600	200 602
	Number BCs Hesse	107	208.699	208.693
	Transer Bee Heese	140	115.320	115.320
	Number BCs Rhineland-Palatinate			
		247	230.330	230.330
	Number BCs Baden-Wuerttemberg			
		306	233.291	233.290
	Number BCs Bavaria	5-7	40.005	40.000
	Number BCs Saarland	57	42.325	42.326
	Number BCs Saanand	262	319.011	319.012
	Number BCs Berlin	202	010.011	010.012
		184	151.077	151.074
	Number BCs Brandenburg			
	Number BCs Mecklenburg-	86	113.269	113.263
	Vorpommern			
	Number BCs Savany	242	240.203	240.200
	Number BCs Saxony	205	167.762	167.796
	Number BCs Saxony-Anhalt	203	107.702	107.730
		150	108.902	108.907
	Number BCs Thuringia			
Number of	Number BCs with 1 individual under	1.054	1.240.788	1.240.788
BCs receiving	65 (west)			
benefits in ac-	Number BCs with 2 individuals under	583	447.906	447.879
cordance with	65 (west)	440	074 505	074.500
SGB II by number of in-	Number BCs with 3 individuals under	416	271.585	271.588
dividuals under	65 (west) Number BCs with 4 individuals under	205	165 000	165 220
65 years of	65 (west)	205	165.223	165.228
age in the	Number BCs with 5 or more individ-	153	116.913	116.903
benefit unit (1,	uals under 65 (west)	133	110.515	110.505
2, 3, 4, and "5	Number BCs with 1 individual under	537	661.509	661.509
or more") and	65 (east)		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	72.1230
by west/east	Number BCs with 2 individuals under	307	226.439	226.472
(10 categories)	65 (east)			

	Number BCs with 3 individuals under	172	114.123	114.118
	65 (east)	172	114.125	114.110
	Number BCs with 4 individuals under	65	61.741	61.743
	65 (east)			
	Number BCs with 5 or more individ-	48	36.412	36.410
	uals under 65 (east)			
Number of	Number BCs without children under	1.612	1.541.340	1.541.318
BCs receiving	15 years of age (west)			
benefits in ac-	Number BCs with 1 child under 15	475	379.401	379.399
cordance with	years of age (west)			
SGB II by	Number BCs with 2 children under	221	214.479	214.474
number of in- dividuals under	15 years of age (west)	75	77.050	77.050
15 years of	Number BCs with 3 children under	75	77.350	77.350
age in the	15 years of age (west) Number BCs with 4 or more children	28	29.845	29.843
benefit unit (0,	under 15 years of age (west)	20	29.045	29.043
1, 2, 3, "4 or	Number BCs without children under	855	811.452	811.485
more") and by	15 years of age (east)	000	011.402	011.403
west/east (10	Number BCs with 1 child under 15	151	167.142	167.139
categories)	years of age (east)		1011112	107.100
	Number BCs with 2 children under	97	84.962	84.962
	15 years of age (east)			
	Number BCs with 3 children under	15	26.203	26.201
	15 years of age (east)			
	Number BCs with 4 or more children	11	10.465	10.465
	under 15 years of age (east)			
Number BCs	Number BCs with a single parent	540	447.085	447.091
receiving	(west)			
benefits in ac-	Rest BCs without a single parent	1.871	1.795.330	1.795.294
cordance with SGB II consist-	(west)	400	105 107	105 100
ing of a single	Number BCs with a single parent (east)	188	185.487	185.480
parent with	(east)	941	914.737	914.772
children by		541	314.737	314.772
west/east (4	Rest BCs without a single parent			
categories)	(east)			
Number of	1.1 bis 1.6	72	455.000	455.000
households by				
federal state	1.7 bis 1.10	209	915.000	915.000
and BIK type	2.10	170	054.000	054.000
(spelling:	2.10	172	954.000	954.000
"Federal state.BIK	3.1 bis 3.5	260	1.386.000	1.386.000
type")				
type)	3.7 bis 3.8	428	1.369.000	1.369.000
	3.9 bis 3.10	239	1.021.000	1.021.000
	4 0 his 4 40	70	054.000	054 000
	4.8 bis 4.10	70	351.000	351.000
	5.2 bis 5.4	295	1.115.000	1.115.000
		200	1.110.000	1.1.13.000
Ĺ	!			·

5.5 bis 5.6	260	967.000	967.000
5.7 bis 5.8	661	2.891.000	2.891.000
5.9 bis 5.10	828	3.503.000	3.503.000
6.1 bis 6.4	146	610.000	610.000
6.5 bis 6.8	190	1.088.000	1.088.000
6.9 bis 6.10	169	1.187.000	1.187.000
7.1 bis 7.6	158	917.000	917.000
7.7 bis 7.10	203	952.000	952.000
8.1 bis 8.4	213	1.208.000	1.208.000
8.5 bis 8.8	302	2.123.000	2.123.000
8.9 bis 8.10	287	1.586.000	1.586.000
9.1 bis 9.4	258	1.494.000	1.494.000
9.5 bis 9.7	285	1.481.000	1.481.000
9.8 bis 9.9	264	1.412.000	1.412.000
9.10	274	1.565.000	1.565.000
10.3 bis 10.8	119	490.000	490.000
11.10	523	1.918.000	1.918.000
12.1 bis 12.4	165	454.000	454.000
12.5 bis 12.7	145	264.000	264.000
12.9 bis 12.10	129	512.000	512.000
13.1 bis 13.6	128	518.000	518.000
13.7 bis 13.9	80	303.000	303.000
14.1 bis 14.4	226	562.000	562.000
14.5 bis 14.8	138	653.000	653.000
14.9 bis 14.10	238	911.000	911.000
15.1 bis 15.4	181	369.000	369.000
15.5 bis 15.7	129	515.000	515.000
		I	l l

	15.8 bis 15.9	141	263.000	263.000
	16.1 bis 16.4	242	507.000	507.000
	16.5 bis 16.8	171	588.000	588.000
Number of households by	Number households with 1 individual (west)	2.251	12.156.000	12.156.000
household size (1,2,3,4,"5 and	Number households with 2 individuals (west)	2.072	10.643.000	10.643.000
more individuals") and	Number households with 3 individuals (west)	1.009	3.929.000	3.929.000
west/east (10 categories)	Number households with 4 individuals (west)	670	3.142.000	3.142.000
	Number households with 5 or more individuals (west)	360	1.170.000	1.170.000
	Number households with 1 individual (east)	1.083	3.601.000	3.601.000
	Number households with 2 individuals (east)	896	2.999.000	2.999.000
	Number households with 3 individuals (east)	382	1.043.000	1.043.000
	Number households with 4 individuals (east)	184	536.000	536.000
	Number households with 5 and more individuals (east)	91	158.000	158000
Number of	Number households with children	1.664	5.504.000	5.504.000
households by	under 15 (west)			
"children under	Number households without children	4.698	25.536.000	25.536.000
15 years of	under 15 (west)		4.00=.5==	4 00 7 6
age in the household	Number households with children	552	1.305.000	1.305.000
yes/no" and	under 15 (east)	2.004	7 022 000	7 022 000
west/east	Number households without children under 15 (east)	2.084	7.032.000	7.032.000

Table 51: Parameters of distribution of weights

Efficiency measure	30,1%
Number of observa- tions	8998
Maximum	37641,57
Minimum	16,03137
Standard deviation	6675,077
Mean	4376,195
99% percentile	25179,83
95% percentile	22164,66
90% percentile	14943,39
75% percentile	5231,639
50% percentile	1084,842
25% percentile	348,7074
10% percentile	196,5759
5% percentile	156,3268
1% percentile	100,7087

6.13 Calibration of the person weight, wave 8, cross-section

As in previous waves, the person weights were calibrated under the restriction that they differ as little as possible from the calibrated household weights. The calibrated household weights were quasi-inherited by the individual household members. These input weights were calibrated at the individual level.

As in the previous year, the increase in UB II recipients since the previous year at the level of individuals between 15 and 64 years (347,350) was also included as an additional benchmark value in the total sample. Again, those cases in the previous samples from waves 1 to 7 of the survey who were receiving UB II in July 2013 are projected to the benchmark statistics of the Federal Employment Agency on receipt of UB II.

Before calibration, the calibrated household weights that formed the input weight were also trimmed. For the calibration of person weights, the range of weights was determined to a certain interval.

6.14 BA sample

The population of the cumulated BA sample of all six waves consists of all individuals aged 15 and over who are living in a household in which there was at least one benefit unit receiving benefits according to SGB II at one of the (until now) seven drawing dates (in July 2006, July 2007, July 2008, July 2009, July 2010, July 2011, July 2012 or July 2013). Only those individuals aged 15 and over who were living in a benefit unit that re-

ceived benefits according to SGB II in July 2013 were considered for calibration. Individuals living in a household that did not receive benefits and individuals living in a household with at least one benefit unit according to SGB II but who were not part of a benefit unit themselves were removed from the dataset for the calibration. The weighting of these individuals was calculated in a different way (see below).

The starting point for the calibration is the calibrated household weights of the BA sample. They were trimmed at the fifth and ninety-fifth percentiles of their distribution and then rescaled so that they totaled the untrimmed calibrated household weights. The trimmed projection factors range from 354.75 to 8,077.81. The relation between the total projection factors after calibration and the trimmed design weights was limited downwards to 0.2 and upwards to 2.0. Thus, the total projection factors after calibration lie between a minimum of 70.95 and a maximum of 9,804.55.

A calibration was made for the following characteristics:

Benefit recipients basis BA statistics:

- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by federal states
- Number of individuals in benefit units receiving benefits according to SGB II, by age (15-24 and 25-64)
- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II by sex and by west/east
- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by "single parent yes/no" and by west/east
- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by nationality (German/non-German)

As in the previous year, the increase in UB II recipients since the previous year at the level of individuals between 15 and 64 years (347,350) was included as an additional benchmark value in the total sample.

For the calibration, each benchmark variable for each individual must have a valid value. Therefore, the very low non-response item was imputed before calibration. The imputation was made by means of the average value and the modal value of the respective variable.

Because the imputation only serves the feasibility of the calibration, the imputed values were set back to missing values after the calibration. A projection with the calibrated weights without considering the nonresponse item thus leads to slight deviations from the values as presented below.

Table 52: Nominal distributions and distributions after calibration (BA sample, individuals)

	Characteristics househmank figure			Distribution
	Characteristics benchmark figure	l lasses alata al	Naminal	with cali-
Dan ak maank fi muna	from BA statistics and Mikrozensus	Unweighted	Nominal	brated
Benchmark figure	2013	distribution	values	weights
Number of individuals	Number individuals in BCs Schleswig-	126	161.204	161.204
aged 15 and over in benefit units receiving	Holstein	440	422.000	422.000
benefits in accord-	Number individuals in BCs Hamburg	118	133.869	133.869
ance with SGB II by	Number individuals in BCs Lower-	459	425.385	425.385
federal states (16	Saxony	400	420.000	420.000
categories)	Canony	46	68.473	68.473
,	Number individuals in BCs Bremen			
	Number individuals in BCs North	1.091	1.173.770	1.173.770
	Rhine-Westphalia			
		200	294.188	294.188
	Number individuals in BCs Hesse			
	Number individuals in BCs Rhineland-	177	158.658	158.658
	Palatinate			
	Number individuals in BCs Baden-	308	310.668	310.668
	Wuerttemberg			
	North and individuals in BOs Bayesia	371	305.160	305.160
	Number individuals in BCs Bavaria	70	FC 007	FC 007
	Number individuals in BCs Saarland	73	56.987	56.987
	Transcr marriadais in 203 Cadhana	311	426.162	426.162
	Number individuals in BCs Berlin	0	1201102	120.102
	Number individuals in BCs Branden-	237	196.276	196.276
	burg			
	Number individuals in BCs Mecklen-	98	147.809	147.809
	burg-Vorpommern			
		310	312.127	312.127
	Number individuals in BCs Saxony			
	Number individuals in BCs Saxony-	253	220.340	220.340
	Anhalt			
	Number in dividuals in DCs Thuris sis	177	140.807	140.807
Number of individuals	Number individuals in BCs Thuringia	642	799.032	799.032
in benefit units receiv-	Number individuals in BCs aged 15-24	042	799.032	199.032
ing benefits in ac-	Transor marriadais in 200 aged 10 21	3.713	3.732.851	3.732.851
cordance with SGB II		00	0.1.02.00	0.1.02.00
by age (15-24 and				
25-64; 2 categories)	Number individuals in BCs aged 25-64			
Number of individuals	, , , , , , , , , , , , , , , , , , ,	1.362	1.492.396	1.492.396
aged 15 and over in	Number men in BCs (west)			
benefit units receiving		1.607	1.595.966	1.595.966
benefits in accord-	Number women in BCs (west)			
ance with SGB II by	N 1 20 (2	689	733.987	733.987
sex and west/east (4	Number men in BCs (east)		700 70:	700 70
categories)	Number women in PCs (seet)	697	709.534	709.534
	Number women in BCs (east)			

Number of individuals aged 15 and over in	Number non single parents in BCs (west)	2.456	2.641.277	2.641.277
benefit units receiving		513	447.085	447.085
benefits in accord-	Number single parents in BCs (west)			
ance with SGB II by	Number non single parents in BCs	1.205	1.258.034	1.258.034
"single parent	(east)			
yes/no", sex and		181	185.487	185.487
west/east (4 catego-				
ries)	Number single parents in BCs (east)			
Number of individuals	Number non-German individuals in	637	983.037	983.037
aged 15 and over in	BCs			
benefit units receiving		3.718	3.548.846	3.548.846
benefits in accord-				
ance with SGB II by				
nationality (Ger-				
man/non-German)	Number German individuals in BCs			

Table 53: Parameters of distribution of weights

1% percentile	88,65522
5% percentile	124,1984
10% percentile	157,2196
25% percentile	271,8235
50% percentile	553,5068
75% percentile	1321,606
90% percentile	2705,687
95% percentile	3578,983
99% percentile	6561,396
Mean	1041,333
Standard deviation	1227,577
Minimum	70,94911
Maximum	9804,553
Number of observa-	4352
Efficiency measure	41,8%

6.15 Population sample

All individuals over 14 years of age in private households in Germany form the basic population. The starting points for the calibration were calibrated household weights of the population sample. These weights were trimmed at the fifth and ninety-fifth percentiles of their distribution and after that rescaled so that they totaled the untrimmed calibrated household weights. The trimmed projection factors lie between a minimum of 3,141.34 and a maximum of 41,532.46. The relation between the total projection factors after cali-

bration and the trimmed design weights was limited downwards to 0.3 and upwards to 3.0. Thus, the total projection factors after calibration lie between a minimum of 942.40 and a maximum of 124,597.40.

A calibration was made for the following characteristics:

Benefit recipients basis BA statistics:

- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by federal states
- Number of individuals in benefit communities receiving benefits according to SGB II, by age (15-24 and 25-64)
- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II by sex and by west/east
- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by "single parent yes/no" and by west/east
- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by nationality (German/non-German)

Population based on Mikrozensus 2013:

- Number of individuals aged 15 and over in private households by federal state
- Number of individuals aged 15 and over in private households, by age, sex and west/east region
- Number of individuals aged 15 and over in private households, by household size and west/east region
- Number of individuals aged 15 and over in private households, by academic qualifications and west/east region
- Number of individuals aged 15 and over in private households, by marital status and west/east region
- Number of individuals aged 15 and over in private households, by nationality
- Number of unemployed individuals including participants in measures, by west/east region
- Number of employees subject to social security, by west/east region

The source for the benchmark value of employment status was the BA statistics because the definition of unemployment and employment subject to social insurance in PASS does not correspond to the ILO.

For the calibration, each benchmark variable for each individual must have a valid value. Therefore, the very low nonresponse item was imputed before calibration. The imputation was made by means of the average value and the modal value of the respective variable.

Because the imputation only serves the feasibility of the calibration, the imputed values were set to missing values after the calibration. A projection with the calibrated weights without considering the nonresponse item therefore leads to slight deviations from the values as presented below.

Table 54: Nominal distributions and distributions after calibration (population sample, individuals)

	Characteristics benchmark			Distribution with cali-
	figure from BA statistics and	Unweighted	Nominal	brated
Benchmark figure	Mikrozensus 2012	distribution	values	weights
Number of individuals in		196	3.055.258	3.055.258
benefit units receiving	Number individuals in BCs west			
benefits in accordance		81	1.477.286	1.477.286
with SGB II by west/east				
(2 categories)	Number individuals in BCs east			
Number of individuals in	Number individuals in BCs	46	810.116	810.116
benefit units receiving	aged 15-24			
benefits in accordance		231	3.722.428	3.722.428
with SGB II by age (15-				
24 and 25-64; 2 catego-	Number individuals in BCs			
ries)	aged 25-64			
Number of individuals		121	2.225.824	2.225.824
aged 15 and over in	Number men in BCs			
benefit units receiving		156	2.306.720	2.306.720
benefits in accordance				
with SGB II by sex (2				
categories)	Number women in BCs			
Number of individuals	Number non single parents in	234	3.905.290	3.905.290
aged 15 and over in	BCs			
benefit units receiving		43	627.254	627.254
benefits in accordance				
with SGB II by "single				
parent yes/no (2 catego-				
ries)	Number single parents in BCs			
Number of individuals	Number non-German individu-	37	941.503	941.503
aged 15 and over in	als in BCs			
benefit units receiving		240	3.591.041	3.591.041
benefits in accordance				
with SGB II by nationality	Number German individuals in			
(German/non-German)	BCs			
Number of individuals	Number individuals in private	166	2.422.000	2.422.000
aged 15 and over in pri-	households Schleswig-Holstein			
vate households by fed-	Number individuals in private	62	1.569.000	1.569.000
eral state (16 categories)	households Hamburg			
	Number individuals in private	636	6.767.000	6.767.000
	households Lower-Saxony			
	Number individuals in private	38	578.000	578.000
	households Bremen			

	Number individuals in private households North Rhine-	1.222	15.344.000	15.344.000
	Westphalia Number individuals in private households Hesse	454	5.255.000	5.255.000
	Number individuals in private households Rhineland-	303	3.446.000	3.446.000
	Palatinate Number individuals in private households Baden-	657	9.220.000	9.220.000
	Wuerttemberg Number individuals in private households Bavaria	985	10.782.000	10.782.000
	Number individuals in private households Saarland	71	890.000	890.000
	Number individuals in private households Berlin	157	3.077.000	3.077.000
	Number individuals in private households Brandenburg	188	2.185.000	2.185.000
	Number individuals in private households Mecklenburg-Vorpommern	91	1.432.000	1.432.000
	Number individuals in private households Saxony	269	3.618.000	3.618.000
	Number individuals in private households Saxony-Anhalt	226	2.011.000	2.011.000
	Number individuals in private households Thuringia	260	1.932.000	1.932.000
Number of individuals aged 15 and over in pri-	Number men in private house- holds (west), 15-19 years	171	1.824.000	1.824.000
vate households by age (in 5-year classes), gen-	Number men in private house- holds (west), 20-24 years	148	2.028.000	2.028.000
der and west/east (56 categories)	Number men in private households (west), 25-29 years	106	1.960.000	1.960.000
	Number men in private households (west), 30-34 years	88	1.986.000	1.986.000
	Number men in private households (west), 35-39 years	98	1.917.000	1.917.000
	Number men in private households (west), 40-44 years	177	2.555.000	2.555.000
	Number men in private households (west), 45-49 years	222	2.820.000	2.820.000
	Number men in private households (west), 50-54 years	233	2.563.000	2.563.000
	Number men in private households (west), 55-59 years	220	2.138.000	2.138.000
Number of individuals aged 15 and over in pri-	Number men in private households (west), 60-64 years	177	1.934.000	1.934.000
vate households by age (in 5-year classes), gen-	Number men in private households (west), 65-69 years	172	1.539.000	1.539.000
der and west/east (56 categories)	Number men in private households (west), 70-74 years	205	1.847.000	1.847.000

Number men in private house-	122	1.251.000	1.251.000
holds (west), 75-79 years	77	4 4 4 7 000	4 4 4 7 000
Number men in private house- holds (west), 80+ years	77	1.147.000	1.147.000
Number women in private	155	1.725.000	1.725.000
households (west), 15-19 years	100	1.725.000	1.725.000
Number women in private	120	1.921.000	1.921.000
households (west), 20-24 years			
Number women in private	77	1.936.000	1.936.000
households (west), 25-29 years			
Number women in private	96	1.987.000	1.987.000
households (west), 30-34 years			
Number women in private	144	1.904.000	1.904.000
households (west), 35-39 years			
Number women in private	202	2.506.000	2.506.000
households (west), 40-44 years	0=0	. ===	. ===
Number women in private	273	2.755.000	2.755.000
households (west), 45-49 years	076	2.524.000	2.524.000
Number women in private households (west), 50-54 years	276	2.531.000	2.531.000
Number women in private	248	2.226.000	2.226.000
households (west), 55-59 years	240	2.220.000	2.220.000
Number women in private	231	2.023.000	2.023.000
households (west), 60-64 years			
Number women in private	177	1.652.000	1.652.000
households (west), 65-69 years			
Number women in private	204	2.092.000	2.092.000
households (west), 70-74 years			
Number women in private	112	1.543.000	1.543.000
households (west), 75-79 years			
Number women in private	63	1.963.000	1.963.000
households (west), 80+ years			
Number men in private house-	27	287.000	287.000
holds (east), 15-19 years	4.4	477.000	477.000
Number men in private house- holds (east), 20-24 years	41	477.000	477.000
Number men in private house-	30	558.000	558.000
holds (east), 25-29 years	30	330.000	330.000
Number men in private house-	27	527.000	527.000
holds (east), 30-34 years		5_1,1000	5_11000
Number men in private house-	30	465.000	465.000
holds (east), 35-39 years			
Number men in private house-	36	618.000	618.000
holds (east), 40-44 years			
Number men in private house-	55	697.000	697.000
holds (east), 45-49 years			
Number men in private house-	68	674.000	674.000
holds (east), 50-54 years		222	222
Number men in private house-	59	606.000	606.000
holds (east), 55-59 years	F 4	F0F 000	F0F 000
Number men in private house- holds (east), 60-64 years	54	525.000	525.000
noids (cast), ou-o- years			

]	Number men in private house-	46	418.000	418.000
	holds (east), 65-69 years			
	Number men in private house-	42	519.000	519.000
	holds (east), 70-74 years			
	Number men in private house-	40	347.000	347.000
	holds (east), 75-79 years			
	Number men in private house-	18	283.000	283.000
	holds (east), 80+ years			
Number of individuals	Number women in private	22	266.000	266.000
aged 15 and over in pri-	households (east), 15-19 years			
vate households by age	Number women in private	29	435.000	435.000
(in 5-year classes), gen-	households (east), 20-24 years			
der and west/east (56				
categories)	Number women in private			
	households (east), 25-29 years	33	518.000	518.000
	Number women in private	27	472.000	472.000
	households (east), 30-34 years	21	472.000	472.000
	Number women in private	28	436.000	436.000
	households (east), 35-39 years	20	400.000	400.000
	Number women in private	41	563.000	563.000
	households (east), 40-44 years	71	000.000	000.000
	Number women in private	57	661.000	661.000
	households (east), 45-49 years	0.	001.000	001.000
	Number women in private	57	662.000	662.000
	households (east), 50-54 years	.	002.000	00000
	Number women in private	74	629.000	629.000
	households (east), 55-59 years		0_0.000	0_0.000
	Number women in private	77	554.000	554.000
	households (east), 60-64 years			
	Number women in private	47	458.000	458.000
	households (east), 65-69 years			
	Number women in private	69	621.000	621.000
	households (east), 70-74 years			
	Number women in private	32	456.000	456.000
	households (east), 75-79 years			
	Number women in private	25	523.000	523.000
	households (east), 80+ years			
Number of individuals	Number individuals in private	693	12.308.000	12.308.000
aged 15 and over in pri-	households with 1 individual			
vate households by	(west)			
household size (1, 2, 3,	Number individuals in private	1.779	21.157.000	21.157.000
4, "5 or more individu-	households with 2 individuals			
als") and west/east (10	(west)			
categories)	Number individuals in private	864	9.884.000	9.884.000
	households with 3 individuals			
	(west)			
	Number individuals in private	806	8.933.000	8.933.000
	households with 4 individuals			
	(west)			
	Number individuals in private	452	3.991.000	3.991.000
I	households with 5 or more indi-			

	viduals (west)			
	Number individuals in private households with 1 individual (east)	212	3.730.000	3.730.000
	Number individuals in private households with 2 individuals (east)	568	6.050.000	6.050.000
	Number individuals in private households with 3 individuals (east)	215	2.582.000	2.582.000
	Number individuals in private households with 4 individuals (east)	116	1.421.000	1.421.000
	Number individuals in private households with 5 or more individuals (east)	80	472.000	472.000
Number of individuals	Number individuals in private	211	2.270.000	2.270.000
aged 15 and over in private households by	households with highest school qualification: still pupil (west)			
highest school qualifica- tion and west/east (12 categories)	Number individuals in private households with highest school qualification: no qualification (west)	119	2.208.000	2.208.000
	Number individuals in private households with highest school qualification: lower secondary	1.482	22.018.000	22.018.000
	school (west) Number individuals in private households with highest school qualification: intermediate sec-	1.318	14.011.000	14.011.000
	ondary school; intermediate secondary school in the former GDR (west) Number individuals in private	1.464	15.766.000	15.766.000
	households with highest school qualification: university (of ap- plied sciences) qualification (west)			
	Number individuals in private households with highest school	29	372.000	372.000
	qualification: still pupil (east) Number individuals in private households with highest school qualification: no qualification	22	316.000	316.000
	(east) Number individuals in private households with highest school qualification: lower secondary	276	3.071.000	3.071.000
	school (east) Number individuals in private households with highest school	528	6.763.000	6.763.000

	qualification: Intermediate secondary school; intermediate secondary school in the former GDR (east) Number individuals in private households with highest school qualification: university (of applied sciences) qualification (east)	336	3.733.000	3.733.000
Number of individuals aged 15 and over in pri-	Number individuals in private households with marital status:	1.077	10.578.000	10.578.000
vate households by marital status and west/east (10 categories)	single (west) Number individuals in private households with marital status:	2.910	35.809.000	35.809.000
	married, civil partnership (west) Number individuals in private households with marital status:	342	5.136.000	5.136.000
	divorced (west) Number individuals in private households with marital status:	265	4.750.000	4.750.000
	widowed (west) Number individuals in private households with marital status:	272	3.550.000	3.550.000
	single (east) Number individuals in private households with marital status:	725	7.967.000	7.967.000
	married, civil partnership (east) Number individuals in private households with marital status:	100	1.467.000	1.467.000
	divorced (east) Number individuals in private households with marital status: widowed (east)	94	1.271.000	1.271.000
Number of individuals aged 15 and over in pri-	Number individuals in private households non-German	188	6.652.000	6.652.000
vate households by na- tionality	Number individuals in private households German	5.597	63.876.000	63.876.000
	Not unemployed west	4.409	53.596.402	53.596.402
	Unemployed individuals incl. participants in measures west	185	2.676.598	2.676.598
Unemployed individuals	Not unemployed east	1.119	13.104.561	13.104.561
incl. participants in measures west/east	Unemployed individuals incl. participants in measures east	72	1.150.439	1.150.439
	Employees not subject to social	2.785	32.588.081	32.588.081
	security contributions west Employees subject to social security contributions west	1.809	23.684.919	23.684.919
Employees subject to	Employees not subject to social security contributions east	661	8.800.390	8.800.390
social security contribu- tions west/east	Employees subject to social security contributions east	530	5.454.610	5.454.610

Table 55: Parameters of distribution of weights

1% percentile	1077,426
5% percentile	1976,18
10% percentile	2639,394
25% percentile	4159,173
50% percentile	7580,121
75% percentile	14561,65
90% percentile	27114,35
95% percentile	39315,35
99% percentile	68661,68
Mean	12191,53
Standard deviation	13561
Minimum	575,3656
Maximum	111439,6
Number of observations	5785
Efficiency measure	44,7%

6.16 Total sample

All individuals aged 15 and over in private households in Germany form the population. The starting point for the calibration was the calibrated household weight of the total sample. That weight was trimmed at the fifth and ninety-fifth percentiles of their distribution and then rescaled so that they totaled the untrimmed calibrated household weights. The trimmed projection factors range from 157.58 to 23,979.67. The relation between the total projection factors after calibration and the trimmed design weights was limited downwards to 0.3 and upwards to 3.5. Thus, the total projection factors after calibration lie between a minimum of 47.27 and a maximum of 83,928.84.

A calibration was made for the following characteristics:

Benefit recipients based on BA statistics:

- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by federal states
- Number of individuals in benefit units receiving benefits according to SGB II, by age (15-24 and 25-64)
- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by sex and by west/east
- Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by "single parent yes/no" and by west/east

 Number of individuals aged 15 and over in benefit units receiving benefits according to SGB II, by nationality (German/non-German)

Population based on Mikrozensus 2012:

- Number of individuals aged 15 and over in private households, by federal state
- Number of individuals aged 15 and over in private households, by age, sex and west/east
- Number of individuals aged 15 and over in private households, by household size and west/east
- Number of individuals aged 15 and over in private households, by academic qualifications and west/east
- Number of individuals aged 15 and over in private households, by marital status and west/east
- Number of individuals aged 15 and over in private households, by nationality

Population based on BA statistics:

- Number of unemployed individuals including participants in measures, by west/east
- Number of employees subject to social security, by west/east

The source for the benchmark value of employment status was the BA statistics because the definition of unemployment and employment subject to social insurance in PASS does not correspond to the ILO concept.

In addition, the increase in UB II recipients since the previous year at the level of individuals between 15 and 64 years of age (358,071) was included as an additional benchmark value in the total sample.

For the calibration, each benchmark variable for each individual must have a valid value. Therefore, the very low non-response item was imputed before calibration. The imputation was made by means of the average value and the modal value of the respective variable.

Because the imputation is only required for the feasibility of the calibration, the imputed values were set back to missing values after the calibration. A projection with the calibrated weights without considering the non-response item therefore leads to slight deviations from the values, as presented below.

Table 56: Nominal distributions and distributions after calibration (total sample, individuals)

		Un-		Distribu-
	Characteristics benchmark fig-	weighted		tion with
	ure from BA statistics and	distribu-	Nominal val-	calibrated
Benchmark figure	Mikrozensus 2012	tion	ues	weights
Number of individuals	Number individuals in BCs	155	160.475	160.475
aged 15 and over in	Schleswig-Holstein	404	101.000	404.000
benefit units receiving	Number individuals in BCs Ham-	131	134.323	134.323
benefits in accordance with SGB II by federal	burg	400	427.075	407.075
states (16 categories)	Number individuals in BCs Lower-Saxony	492	427.075	427.075
states (10 dategories)	Saxony	64	67.894	67.894
	Number individuals in BCs Bremen	04	07.004	07.004
	Number individuals in BCs North	1.289	1.154.436	1.154.436
	Rhine-Westphalia			
	·	269	288.580	288.580
	Number individuals in BCs Hesse			
	Number individuals in BCs Rhine-	197	157.411	157.411
	land-Palatinate			
	Number individuals in BCs Baden-	364	306.673	306.673
	Wuerttemberg			
	Number individuals in BCs Bavaria	435	302.790	302.790
	Number individuals in BCs Saar-	84	55.601	55.601
	land	04	33.001	33.001
	land	354	429.338	429.338
	Number individuals in BCs Berlin	001	120.000	120.000
	Number individuals in BCs Bran-	278	200.607	200.607
	denburg			
	Number individuals in BCs Meck-	120	150.999	150.999
	lenburg-Vorpommern			
		365	324.157	324.157
	Number individuals in BCs Saxony			
	Number individuals in BCs Saxony-	301	226.369	226.369
	Anhalt	470	4.45.04.0	4.45.040
	Number individuals in BCs Thurin-	179	145.816	145.816
Number of individuals in	gia Number individuals in BCs aged	764	810.116	810.116
benefit units receiving	15-24	704	810.110	810.110
benefits in accordance	10 24	4.313	3.722.428	3.722.428
with SGB II by age (15-		1.010	0.722.120	0.722.120
24 and 25-64; 2 catego-	Number individuals in BCs aged			
ries)	25-64			
Number of individuals		1.579	1.473.008	1.473.008
aged 15 and over in	Number men in BCs (west)			
benefit units receiving	. 50 ()	1.901	1.582.250	1.582.250
benefits in accordance	Number women in BCs (west)	000	750.040	750.040
with SGB II by sex and	Number men in BCs (east)	806	752.816	752.816
west/east (4 categories)	Trainber men in DOS (east)	791	724.470	724.470
	Number women in BCs (east)	131	724.470	124.410
1	1 = 0 = ()			ı

Number of individuals	Number non single parents in BCs	2.853	2.612.825	2.612.825
aged 15 and over in benefit units receiving	(west) Number single parents in BCs	627	442.433	442.433
benefits in accordance with SGB II by "single	(west) Number non single parents in BCs	1.388	1.292.465	1.292.465
parent yes/no" and west/east (4 categories)	(east) Number single parents in BCs	209	184.821	184.821
	(east)	209		
Number of individuals aged 15 and over in	Number non-German individuals in BCs	676	941.503	941.503
benefit units receiving		4.401	3.591.041	3.591.041
benefits in accordance with SGB II by nationality				
(German/non-German)	Number German individuals in BCs			
Number of individuals	Number individuals in private	458	2.422.000	2.422.000
aged 15 and over in pri-	households Schleswig-Holstein	050	4 500 000	4 500 000
vate households by federal state (16 categories)	Number individuals in private households Hamburg	256	1.569.000	1.569.000
	Number individuals in private	1.462	6.767.000	6.767.000
	households Lower-Saxony			
	Number individuals in private households Bremen	117	578.000	578.000
	Number individuals in private	3.251	15.344.000	15.344.000
	households North Rhine-			
	Westphalia	007	E 255 000	F 255 000
	Number individuals in private households Hesse	897	5.255.000	5.255.000
	Number individuals in private	633	3.446.000	3.446.000
	households Rhineland-Palatinate			
	Number individuals in private households Baden-Wuerttemberg	1.343	9.220.000	9.220.000
	Number individuals in private	1.832	10.782.000	10.782.000
	households Bavaria	195	890.000	890.000
	Number individuals in private households Saarland	195	690.000	690.000
	Number individuals in private households Berlin	713	3.077.000	3.077.000
	Number individuals in private	662	2.185.000	2.185.000
	households Brandenburg			
	Number individuals in private	327	1.432.000	1.432.000
	households Mecklenburg- Vorpommern			
	Number individuals in private	916	3.618.000	3.618.000
	households Saxony			
	Number individuals in private households Saxony-Anhalt	756	2.011.000	2.011.000
	Number individuals in private	631	1.932.000	1.932.000
	households Thuringia			
Number of individuals	Number men in private households	403	1.824.000	1.824.000
aged 15 and over in private households by age	(west), 15-19 years Number men in private households	335	2.028.000	2.028.000
(in 5-year classes), gen-	(west), 20-24 years	333	2.020.000	2.020.000
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der and west/east (56	Number men in private households	361	1.960.000	1.960.000
categories)	(west), 25-29 years Number men in private households	368	1.986.000	1.986.000
	(west), 30-34 years Number men in private households	313	1.917.000	1.917.000
	(west), 35-39 years Number men in private households	423	2.555.000	2.555.000
	(west), 40-44 years Number men in private households	506	2.820.000	2.820.000
Niconale and a Conditional a	(west), 45-49 years	5.40	0.500.000	0.500.000
Number of individuals	Number men in private households	543	2.563.000	2.563.000
aged 15 and over in private households by age	(west), 50-54 years Number men in private households	486	2.138.000	2.138.000
(in 5-year classes), gen-	(west), 55-59 years	400	2.138.000	2.138.000
der and west/east (56	Number men in private households	426	1.934.000	1.934.000
categories)	(west), 60-64 years	0		
	Number men in private households	296	1.539.000	1.539.000
	(west), 65-69 years Number men in private households	234	1.847.000	1.847.000
	(west), 70-74 years Number men in private households	130	1.251.000	1.251.000
	(west), 75-79 years			
	Number men in private households (west), 80+ years	80	1.147.000	1.147.000
	Number women in private house-	373	1.725.000	1.725.000
	holds (west), 15-19 years Number women in private house-	395	1.921.000	1.921.000
	holds (west), 20-24 years Number women in private house-	391	1.936.000	1.936.000
	holds (west), 25-29 years	406	1.987.000	1.987.000
	Number women in private households (west), 30-34 years	496		
	Number women in private house- holds (west), 35-39 years	447	1.904.000	1.904.000
	Number women in private house- holds (west), 40-44 years	529	2.506.000	2.506.000
	Number women in private house-	583	2.755.000	2.755.000
	holds (west), 45-49 years Number women in private house-	626	2.531.000	2.531.000
	holds (west), 50-54 years Number women in private house-	550	2.226.000	2.226.000
	holds (west), 55-59 years Number women in private house-	455	2.023.000	2.023.000
	holds (west), 60-64 years			
	Number women in private households (west), 65-69 years	269	1.652.000	1.652.000
	Number women in private households (west), 70-74 years	225	2.092.000	2.092.000
	Number women in private households (west), 75-79 years	122	1.543.000	1.543.000
	Number women in private house-holds (west), 80+ years	79	1.963.000	1.963.000

550,000
558.000
527.000
465.000
618.000
697.000
674.000
606.000
525.000
418.000
519.000
347.000
283.000
266.000
435.000
518.000
472.000
436.000
563.000
661.000
662.000
629.000
554.000
458.000
621.000

	Number women in private households (east), 75-79 years	39	456.000	456.000
	Number women in private households (east), 80+ years	30	523.000	523.000
Number of individuals	Number individuals in private	2.278	12.308.000	12.308.000
aged 15 and over in private households by household size (1, 2, 3,	households with 1 individual (west) Number individuals in private households with 2 individuals	3.522	21.157.000	21.157.000
4, "5 or more individuals") and west/east (10 categories)	(west) Number individuals in private households with 3 individuals	2.081	9.884.000	9.884.000
	(west) Number individuals in private households with 4 individuals	1.552	8.933.000	8.933.000
	(west) Number individuals in private households with 5 or more individ-	1.011	3.991.000	3.991.000
	uals (west) Number individuals in private households with 1 individual (east)	1.079	3.730.000	3.730.000
	Number individuals in private households with 2 individuals (east)	1.519	6.050.000	6.050.000
	Number individuals in private households with 3 individuals (east)	766	2.582.000	2.582.000
	Number individuals in private households with 4 individuals	400	1.421.000	1.421.000
	(east) Number individuals in private households with 5 or more individuals (east)	241	472.000	472.000
Number of individuals	Number individuals in private	499	2.270.000	2.270.000
aged 15 and over in private households by highest school qualification and west/east (12	households with highest school qualification: still pupil (west) Number individuals in private households with highest school	519	2.208.000	2.208.000
categories)	qualification: no qualification (west) Number individuals in private households with highest school qualification: lower secondary	3.699	22.018.000	22.018.000
	school (west) Number individuals in private households with highest school qualification: intermediate second-	2.949	14.011.000	14.011.000
	ary school; intermediate secondary school in the former GDR (west) Number individuals in private households with highest school qualification: university (of applied sciences) qualification (west)	2.778	15.766.000	15.766.000

	Number individuals in private households with highest school	116	372.000	372.000
	qualification: still pupil (east) Number individuals in private households with highest school	138	316.000	316.000
	qualification: no qualification (east) Number individuals in private households with highest school	927	3.071.000	3.071.000
	qualification: lower secondary school (east) Number individuals in private households with highest school	1.942	6.763.000	6.763.000
	qualification: Intermediate second- ary school; intermediate secondary school in the former GDR (east) Number individuals in private	882	3.733.000	3.733.000
	households with highest school qualification: university (of applied sciences) qualification (east)			
Number of individuals aged 15 and over in pri-	Number individuals in private households with marital status:	3.309	10.578.000	10.578.000
vate households by marital status and west/east	single (west)	5.199	35.809.000	35.809.000
(10 categories)	Number individuals in private households with marital status:			
	married, civil partnership (west) Number individuals in private households with marital status: di-	1.503	5.136.000	5.136.000
	vorced (west) Number individuals in private households with marital status:	433	4.750.000	4.750.000
	widowed (west) Number individuals in private households with marital status:	1.511	3.550.000	3.550.000
	single (east) Number individuals in private households with marital status: married, civil partnership (east)	1.706	7.967.000	7.967.000
	Number individuals in private households with marital status: divorced (east)	616	1.467.000	1.467.000
	Number individuals in private households with marital status: widowed (east)	172	1.271.000	1.271.000
Number of individuals	Number individuals in private	1.140	6.652.000	6.652.000
aged 15 and over in private households by nationality	households non-German Number individuals in private households German	13.309	63.876.000	63.876.000
lionality	nousenous Gernan	8.395	53.596.402	53.596.402
Unemployed individuals incl. participants in	Not unemployed west Unemployed individuals incl. partic-	2.049	2.676.598	2.676.598
measures west/east	ipants in measures west			

		2.924	13.104.561	13.104.561
	Not unemployed east			
	Unemployed individuals incl. partic-	1.081	1.150.439	1.150.439
	ipants in measures east			
	Employees not subject to social	6.641	32.588.081	32.588.081
	security contributions west			
	Employees subject to social securi-	3.803	23.684.919	23.684.919
	ty contributions west			
Employees subject to	Employees not subject to social security contributions east	2.414	8.800.390	8.800.390
social security contribu-	Employees subject to social security contributions east	1.591	5.454.610	5.454.610
tions west, east	ty contributions cast			

Table 57: Parameters of distribution of weights

1% percentile	53,96318
5% percentile	96,04667
10% percentile	144,5919
25% percentile	327,5365
50% percentile	1304,052
75% percentile	5833,994
90% percentile	14399,46
95% percentile	22033,35
99% percentile	38690,41
Mean	4881,168
Standard deviation	8325,565
Minimum	47,27327
Maximum	83928,84
Number of observations	14449
Efficiency measure	25,6%

6.17 Estimating the BA cross-sectional weights for households and individuals not receiving Unemployment Benefit II

Finally, in wave 7, some households and individuals remained that could not be assigned a BA cross-sectional household weight or a BA cross-sectional person weight by means of calibration. The number of these households is larger in wave 7 than in wave 6 because a larger part of the BA sample of waves 1 to 6 has withdrawn from benefits. These are the following three groups that were not receiving benefits in July 2012 but that belong to the population of the BA sample (households receiving UB II in July 2006, July 2007, July 2008, July 2009, July 2010, July 2011 or July 2012 and individuals in households re-

ceiving UB II in July 2006, July 2007, July 2008, July 2009, July 2010, July 2011 or July 2012).

- From the refreshment sample: Individuals in the household who are not members of a
 benefit unit: Here, the person weight was obtained from the BA household weight in
 wave 7 after calibration (wqbahh) by dividing it by the proportion of these individuals
 who gave a personal or senior citizen interview provided that their household was
 participating.
- Panel households in which nobody continued to receive UB II in July 2012: The household retains the BA weight before calibration. Individuals in households with interviews in both waves were assigned a new BA person weight, which is obtained by multiplying their old BA person weight by the reciprocal re-participation probability ppbleib. Individuals in these households who did not provide a personal interview in wave 6 are assigned a new BA person weight calculated by dividing the BA household weight of their household for wave 7 by the proportion of such individuals who participate if their household is taking part.
- Individuals who are not members of a benefit unit in panel households that continued
 to receive UB II in July 2012: Individuals in these households with interviews in both
 waves were assigned a new BA person weight, which is obtained by multiplying their
 BA person weight from the previous wave by the reciprocal re-participation probability
 ppbleib.

The individuals and households were also adjusted to a benchmark figure for the individuals or benefit units that did not continue to receive UB II. The exact population of this group is unknown but can be approximated from the total of all cumulated BA subsamples minus the individuals or benefit units currently receiving benefits. The number of individuals who are no longer receiving UB II at wave 7 is 4,382,041. The number of benefit units that are no longer receiving UB II is 3,203,818.

7 Appendix: Brief description of the dataset

Content characteristics

Categories	Comments
Topics/ characteristics categories	Socio-demographic characteristics: artificial individual ID; sex; year of birth; age; marital status; number of children living in and outside the household; nationality; country of origin and migration background; school and vocational qualifications (incl. generated scales: CASMIN, ISCED-97, number of years of schooling and vocational training), parents' school and vocational qualifications; health indicators; religious denomination; social contacts; childcare and school attendance of children; household income (incl. individual components and equivalised household equipment (deprivation index); housing and residential environment; detailed information on the topic of old age benefits (only wave 3); Employment-related characteristics: employment status/economic inactivity status; marginal employment; working hours; occupational status (detailed); employment (ISCO-88 and KIdB-92); ISCO-based measures of occupational status and prestige (ISEI, SIOPS, MPS, EGP, ESeC); earned income (gross and net); employment biographies with employment/unemployment spells and periods of economic inactivity since January 2005 (from wave 2 onwards); limited-term employment; supervisory function; employer: public service/private industry; employer: number of employees; other employment; pooled information on the employment and unemployment history; detailed information on the subject of job-search; reservation wage; Characteristics on receiving benefits: Unemployment Benefit II: start and end dates of the spell(s) of benefit receipt since January 2005 (wave 1 only); information on periods of Unemployment Benefit II: start and end dates of the spell(s) of benefit receipt since January 2005; reason for start and end; identification of household members receiving benefits; amount of benefits received; benefit cuts (start date, duration, reasons, which household members' benefit cut); Measurement participation: type of measure; start and end dates of measure; assessment of measure; working hours in measure; comparison to regular emp

Categories	Comments
Topics/ characteristics catego- ries (continued)	Subjective indicators: satisfaction; fears and problems; employment orientation; education as- piration; sex role orientation; subjective social position (top-bottom scale); subjective assessment of health state
Data unit	Individuals and households receiving Unemployment Benefit II in July 2006 (sample I) Individuals and households in the resident population of Germany (sample II) Individuals and households receiving Unemployment Benefit II in July 2007 but without receipt in July 2006 (sample III; refreshment sample 1) Individuals and households receiving Unemployment Benefit II in July 2008 but without receipt in July 2006 or July 2007 (sample IV; refreshment sample 2) Individuals and households receiving Unemployment Benefit II in July 2009 but without receipt in July 2006, July 2007 or July 2008 (sample V; refreshment sample 3) Individuals and households receiving Unemployment Benefit II in July 2010 but without receipt in July 2006, July 2007, July 2008 or July 2009 (sample VIII; refreshment sample 4) Individuals and households of the resident German population (sample VI, panel refreshment/replenishment sample) Individuals and households receiving UB II in July 2010 (sample VII,
	Individuals and households receiving Unemployment Benefit II in July 2011 but without receipt in July 2006, July 2007, July 2008, July 2009 or July 2010 (sample IX; refreshment sample 5) Individuals and households receiving Unemployment Benefit II in July 2012 but without receipt in July 2006, July 2007, July 2008, July 2009, July 2010 or July 2011 (sample X; refreshment sample 6) Individuals and households receiving Unemployment Benefit II in July 2013 but without receipt in July 2006, July 2007, July 2008, July 2013 but without receipt in July 2006, July 2007, July 2008, July 2009, July 2010, July 2011 or July 2012 (sample XI; refreshment sample 7) Note: individuals aged 65 and over are interviewed using a shorter version of the questionnaire

Categories	Comments
Case numbers	Wave 1: Sample I: 9,386 individuals (living in 6,804 households) Sample II: 9,568 individuals (living in 5,990 households) Wave 2: sample I: 4,753 individuals (living in 3,491 households) Sample III: 6,392 individuals (living in 1,041 households) Sample III: 1,342 individuals (living in 1,041 households) Wave 3: sample I: 4,913 individuals (living in 3,754 households) Sample III: 898 individuals (living in 3,901 households) Sample III: 898 individuals (living in 6,94 households) Sample III: 898 individuals (living in 1,186 households) Sample III: 7,421 individuals (living in 1,186 households) Sample III: 7,421 individuals (living in 2,977 households) Sample III: 7,421 individuals (living in 2,977 households) Sample III: 7,86 individuals (living in 7,45 households) Sample III: 7,93 individuals (living in 7,45 households) Sample IV: 9,83 individuals (living in 7,45 households) Sample V: 1,025 individuals (living in 7,46 households) Sample III: 4,511 individuals (living in 7,46 households) Sample III: 4,511 individuals (living in 4,64 households) Sample III: 6,53 individuals (living in 6,68 households) Sample IV: 2,589 individuals (living in 6,68 households) Sample V: 7,60 individuals (living in 7,54 households) Sample VII: 1,859 individuals (living in 7,54 households) Sample VII: 1,859 individuals (living in 7,54 households) Sample VII: 1,619 individuals (living in 7,54 households) Sample VII: 1,619 individuals (living in 7,109 households) Sample VII: 1,619 individuals (living in 7,109 households) Sample VII: 1,360 individuals (living in 7,109 households) Sample VII: 1,360 individuals (living in 9,109 households) Sample VII: 1,360 individuals (living in 1,103 households) Sample VII: 1,681 individuals (living in 1,103 househ

Categories	Comments
	Wave 8: Sample I: 2,447 individuals (living in 1,738 households) Sample II: 3,591 individuals (living in 2,194 households) Sample III: 450 individuals (living in 324 households) Sample IV: 593 individuals (living in 431 households) Sample V: 512 individuals (living in 359 households) Sample VI: 502 individuals (living in 348 households) Sample VII: 1,533 individuals (living in 883 households) Sample VIII: 999 individuals (living in 687 households) Sample IX: 821 individuals (living in 571 households) Sample X: 932 individuals (living in 677 households) Sample XI: 1,080 individuals (living in 795 households)

Categories	Comments
Data collection mode	CATI and CAPI
	CAPI interviews were conducted when a sample household could not be reached by telephone or when a personal interview was re- quested.
	Wave 1:
	N (CATI): 12,414 individuals (8,445 households)
	N (CAPI): 6,540 individuals (4,339 households)
	Wave 2:
	N (CATI): 7,888 individuals (5,378 households) N (CAPI): 4,599 individuals (3,051 households)
	Wave 3:
	N (CATI): 7,776 individuals (5,664 households)
	N (CAPI): 5,663 individuals (3,871 households)
	Wave 4: N (CATI): 6,913 individuals (4,669 households) N (CAPI): 4,855 individuals (3,179 households)
	Wave 5:
	N (CATI): 7,358 individuals (4,987 households) N (CAPI): 8,249 individuals (5,248 households)
	Wave 6: N (CATI): 6,069 individuals (4,058 households) N (CAPI): 8,550 individuals (5,455 households)
	Wave 7: N (CATI): 5,779 individuals (3,874 households) N (CAPI): 8,670 individuals (5,635 households)
	Wave 8: N (CATI): 5,074 individuals (3,454 households) N (CAPI): 8,386 individuals (5,544 households)

Categories	Comments
Interview languages	Wave 1: German: 18,205 individuals (12,347 households) Russian: 432 individuals (275 households) Turkish: 305 individuals (163 households) English: 12 individuals (9 households) Wave 2: German: 12,237 individuals (8,234 households) Russian: 219 individuals (156 households) Turkish: 31 individuals (39 households) English: no longer offered in wave 2 due to the low case numbers in wave 1 Wave 3: German: 13,000 individuals (9,256 households) Russian: 330 individuals (210 households) Turkish: 109 individuals (69 households) Wave 4: German: 11,405 individuals (7,627 households) Turkish: 78 individuals (42 households) Turkish: 78 individuals (42 households) Wave 5: German: 15,290 individuals (10,040 households) Turkish: 58 individuals (36 households) Turkish: 58 individuals (36 households) Turkish: 40 individuals (25 households) Turkish: 40 individuals (25 households) Turkish: 40 individuals (29 households) Russian: 245 individuals (9,335 households) Russian: 245 individuals (145 households) Turkish: 43 individuals (29 households) Russian: 224 individuals (29 households) Turkish: 43 individuals (29 households) Turkish: 43 individuals (29 households) Turkish: 28 individuals (131 households) Turkish: 28 individuals (22 households)

Categories	Comments
Response rates	<u>Wave 1</u> : Sample I: 35.1 % Sample II: 26.6 % Total: 30.5 %
	Wave 2: Sample I (HHs agreeing to participate only): 51.1 % Sample II (HHs agreeing to participate only): 64.7 % Sample III: 26.3 %
	Split-off households (from samples I and II): 13.4 % Total: 45.0 %
	Wave 3: Sample I (HHs agreeing to participate only): 64.5 % Sample II (HHs agreeing to participate only): 76.4 % Sample II (HHs agreeing to participate only): 69.0 % Sample IV: 31.2% Total: 60.6 %
	Wave 4: Sample I (HHs agreeing to participate only): 72.1 % Sample II (HHs agreeing to participate only): 82.4 % Sample III (HHs agreeing to participate only): 65.6 % Sample IV (HHs agreeing to participate only): 68.2 % Sample V: 30.9 % Total: 59.5 %
	Wave 5: Sample I (HHs agreeing to participate only): 71.1 % Sample II (HHs agreeing to participate only): 81.3 % Sample III (HHs agreeing to participate only): 69.2 % Sample IV (HHs agreeing to participate only): 63.7 % Sample V: (HHs agreeing to participate only): 71.5 % Sample VI: 24.5 % Sample VII: 24.5 % Sample VIII: 27.1 % Total: 43.9 %
	Wave 6: Sample I (HHs agreeing to participate only): 73.3 % Sample II (HHs agreeing to participate only): 85.1 % Sample III (HHs agreeing to participate only): 70.2 % Sample IV (HHs agreeing to participate only): 69.9 % Sample V (HHs agreeing to participate only): 68.4 % Sample VI (HHs agreeing to participate only): 78.4 % Sample VII (HHs agreeing to participate only): 84.1 % Sample VIII (HHs agreeing to participate only): 77.1 % Sample IX: 30.8 % Total: 67.4 %
	Wave 7: Sample I (HHs agreeing to participate only): 79.1 % Sample II (HHs agreeing to participate only): 86.8 % Sample III (HHs agreeing to participate only): 75.3 % Sample IV (HHs agreeing to participate only): 77.5 % Sample V (HHs agreeing to participate only): 76.4 % Sample VI (HHs agreeing to participate only): 66.6 % Sample VII (HHs agreeing to participate only): 79.3 % Sample VIII (HHs agreeing to participate only): 70.8 % Sample IX (HHs agreeing to participate only): 74.2 % Sample X: 32.1% Total: 68.7 %

Categories	Comments
	Wave 8: Sample I (HHs agreeing to participate only): 78.2 % Sample II (HHs agreeing to participate only): 84.7 % Sample III (HHs agreeing to participate only): 76.1 % Sample IV (HHs agreeing to participate only): 75.7 % Sample V (HHs agreeing to participate only): 77.0 % Sample VI (HHs agreeing to participate only): 71.0 % Sample VII (HHs agreeing to participate only): 81.8 % Sample VIII (HHs agreeing to participate only): 74.1 % Sample IX (HHs agreeing to participate only): 65.6 % Sample X (HHs agreeing to participate only): 74.0 % Sample X: 25.6% Total: 65.9 %

Categories	Comments
Response rates within households	Stage 1: Sample I: 85.6 %, Sample II: 84.3 %, Total: 85.0 % Wave 2: Sample I (re-interviewed households only): 85.5 % Sample II (re-interviewed households only): 85.1 % Sample III: 86.2 % Split-off households (from samples I and II): 88.3 % Total: 85.4 %
	Wave 3: Sample I (re-interviewed households only): 83.1 % Sample I (re-interviewed households only): 83.6 % Sample III (re-interviewed households only): 84.3 % Sample IV: 84.2 % Split-off households (from samples I - III): 84.2 % Total: 83.5 %
	Wave 4: Sample I (re-interviewed households only): 88.4 % Sample I (re-interviewed households only): 88.0 % Sample III (re-interviewed households only): 90.2 % Sample IV (re-interviewed households only): 88.3 % Sample V: 89.6 % Split-off households (from samples I - IV): 86.4 % Total: 88.5 %
	Wave 5: Sample I (re-interviewed households only): 88.7 % Sample I (re-interviewed households only): 88.3 % Sample III (re-interviewed households only): 89.5 % Sample IV (re-interviewed households only): 89.3 % Sample V (re-interviewed households only): 91.2 % Sample VI: 84.4 % Sample VII: 90.0 % Sample VIII: 88.9 % Split-off households (from samples I - V): 89.9 % Total: 88.3 %
	Wave 6: Sample I (re-interviewed households only): 89.3 % Sample I (re-interviewed households only): 88.6 % Sample III (re-interviewed households only): 88.5 % Sample IV (re-interviewed households only): 88.5 % Sample V (re-interviewed households only): 91.4 % Sample VI (re-interviewed households only): 92.0 % Sample VII (re-interviewed households only): 89.1 % Sample VIII (re-interviewed households only): 91.5 % Sample IX: 89.9 % Split-off householdes (from samples I-VIII): 91.7 % Total: 89.5 %
	Wave 7: Sample I (re-interviewed households only): 89.2 % Sample I (re-interviewed households only): 88.4 % Sample III (re-interviewed households only): 90.1 % Sample IV (re-interviewed households only): 88.8 % Sample V (re-interviewed households only): 89.8 % Sample VI (re-interviewed households only): 92.6 % Sample VII (re-interviewed households only): 89.1 % Sample VIII (re-interviewed households only): 92.0 % Sample IX (re-interviewed households only): 90.7 % Sample X: 90.1% Split-off householdes (from samples I-IX): 90.3 % Total: 89.5 %

Categories	Comments
	Wave 8: Sample I (re-interviewed households only): 89.3 % Sample I (re-interviewed households only): 88.6 % Sample III (re-interviewed households only): 91.0 % Sample IV (re-interviewed households only): 88.3 % Sample V (re-interviewed households only): 90.5 % Sample VI (re-interviewed households only): 91.3 % Sample VII (re-interviewed households only): 89.0 % Sample VIII (re-interviewed households only): 93.3 % Sample IX (re-interviewed households only): 91.3 % Sample X (re-interviewed households only): 91.5 % Sample XI: 90.0% Split-off householdes (from samples I-X): 90.0 % Total: 89.9 %

Categories	Comments
Fieldwork period	Wave 1: December 2006-June 2007 Wave 2: December 2007-July 2008 Wave 3: December 2008-August 2009 Wave 4: February 2010-September 2010 Wave 5: February 2011-September 2011 Wave 6: February 2012-September 2012 Wave 7: February 2013-September 2013 Wave 8: February 2014-September 2014
Period	Wave 1: fieldwork period and retrospective spell data as of January 2005 Wave 2: fieldwork period and retrospective spell data as of January 2005 or the respective reference period of the spell type Wave 3: fieldwork period and retrospective spell data as of 01/2006 or the respective reference period of the spell type Wave 4: fieldwork period and retrospective spell data as of 01/2008 or the respective reference period of the spell type Wave 5: fieldwork period and retrospective spell data as of 01/2009 or the respective reference period of the spell type Wave 6: fieldwork period and retrospective spell data as of 01/2010 or the respective reference period of the spell type Wave 7: fieldwork period and retrospective spell data as of 01/2011 or the respective reference period of the spell type Wave 8: fieldwork period and retrospective spell data as of 01/2012 or the respective reference period of the spell type
Time reference	Repeat interview (household panel)
Regional structure	German federal state, east/west Germany (Further regional information is available but is not contained in the scientific use file for data protection reasons. Detailed information is available on request.)
Territorial allocation	On the survey date

Methodological characteristics

Categories	Comments
Survey design	Original sample wave 1: two-stage random sample with two sub-populations
	Stage 1: selection of 300 postcode sectors as primary sampling units (PSU) for both subsamples. The sampling probability of the individual postcode areas depended on the particular size of the area in terms of the number of residents (probability proportional to size/pps).
	Stage 2, sample I: drawing of benefit units from the register data of the Federal Employment Agency. The number of the gross sample drawn per PSU depended on the PSU size in terms of the relative proportion of benefit recipients within the respective postcode sector (probability proportional to size/pps). The average size of the gross sample was N=100 per postcode area.
	Stage 2, sample II: for sample II, first a sample of residential buildings was drawn from a commercial database (Microm mosaic). This was then stratified using a stratification index contained in the database at a ratio of 4:2:1 for low-, medium- or high-status households, respectively. Interviewers from the surveying institute visited the selected buildings. In the event that a building accommodated several households, this fact was noted, and then one of the households was selected by the institute as the household to be interviewed. The gross sample comprised N=100 households per postcode area.
	Refreshment sample for sample I in wave 2: In addition to continuing sample I (which was drawn for wave 1) in the second wave, a refreshment sample was drawn from the register data of the Federal Employment Agency. Benefit units that received Unemployment Benefit II in July 2007 but not in July 2006 were selected, i.e., new recipients. The sample was drawn in the postcode areas selected for wave 1 following the procedure used in wave 1.
	Refreshment sample for sample I in wave 3: Also in wave 3, a refreshment sample for sample I was drawn from the register data of the Federal Employment Agency. To do so, benefit units that received Unemployment Benefit II in July 2008 but not in July 2006 or July 2007 were selected, i.e., new benefit recipients. The sample was drawn in the postcode sectors selected for wave 1 following the procedure used in wave 1.
	Refreshment sample 3 for sample I in wave 4 (sample V): Also in wave 4, a refreshment sample for sample I was drawn from the register data of the Federal Employment Agency. Benefit units that were receiving Unemployment Benefit II in July 2009 but not in July 2006, July 2007 or July 2008 were selected. These benefit units thus depict the inflows to benefit receipt. The sample was drawn in the postcode sectors selected for wave 1 following the procedure used in wave 1.
	Refreshment sample 4 for sample I in wave 5: Also in wave 5, a refreshment sample for sample I was drawn from the reg-

ister data of the Federal Employment Agency. Benefit units that were receiving Unemployment Benefit II in July 2010 but not in July 2006, July 2007, July 2008 or July 2009 were selected. These benefit units thus depict the inflows to benefit receipt. The sample was drawn in the postcode sectors selected for wave 1 following the procedure used in wave 1.

In wave 5, the panel of the original sample was refreshed with two replenishment samples based on a two-staged random sample with two subpopulations.

Stage 1: selection of 100 postcode sectors as primary sampling units (PSU) for both subsamples. The sampling probability of the individual postcode sectors depended on the particular size of the sector in terms of the number of residents (probability proportional to size/pps).

Stage 2, sample VII: drawing of benefit units from the register data of the Federal Employment Agency with sampling date July 2010. The number of benefit recipients to be selected per point was selected as the product of the permanent sample size (sample size individuals per point) in the population sample with the quotient from benefit recipient rate in the point and benefit recipient rate across Germany.

Stage 2, sample VI: in sample VI, the individuals were drawn from the registration offices' registers. To do so, 96 municipalities were assigned to the 100 postcode areas. The drawing of the personal addresses from the possible choices in the municipalities was made by systematic random sampling (interval sampling). Sampling of addresses from the registration offices' registers was made for birth years of 1992 and earlier. One hundred forty-four addresses were drawn from the municipalities' registers in each sample point.

Refreshment sample 5 for sample I in wave 6:

In wave 6, a refreshment sample for sample I was again drawn from the register data of the Federal Employment Agency. Benefit units that were receiving Unemployment Benefit II in July 2011 but not in July 2006, July 2007, July 2008, July 2009 or July 2010 were selected, i.e., new benefit recipients. The sample was drawn in the postcode sectors selected for wave 1 following the procedure used in wave 1.

Refreshment sample 6 for sample I in wave 7:

In wave 7, a refreshment sample for sample I was again drawn from the register data of the Federal Employment Agency. Benefit units that were receiving Unemployment Benefit II in July 2012 but not in July 2006, July 2007, July 2008, July 2009, July 2010 or July 2011 were selected, i.e., new benefit recipients. The sample was drawn in the postcode sectors selected for wave 1 following the procedure used in wave 1.

Refreshment sample 7 for sample I in wave 8:

In wave 8, a refreshment sample for sample I was again drawn from the register data of the Federal Employment Agency. Benefit units that were receiving Unemployment Benefit II in July 2013 but not in July 2006, July 2007, July 2008, July 2009, July 2010, July 2011 or July 2012 were selected, i.e., new benefit recipients. The sample was drawn in the postcode sectors selected for wave 1 following the procedure used in wave 1.

Categories	Comments
Institutions involved in survey	Institute for Employment Research (IAB); TNS Infratest Sozialfor- schung (waves 1 to 3), infas Institut für angewandte Sozialwissen- schaft GmbH (as of wave 4)
Frequency of data collection	Annually (panel)
File format and size	STATA, SPSS (several files)
File architecture	Household dataset: HHENDDAT.dta/.sav Individual dataset: PENDDAT.dta/.sav Spell data Unemployment Benefit I: alg1_spells.dta/.sav (wave 1 only) Spell data Unemployment Benefit II: alg2_spells.dta/.sav Spell data unemployment: al_spells.dta/.sav (waves 2 and 3) Spell data employment: et_spells.dta/.sav (waves 2 and 3) Spell data gaps: lu_spells.dta/.sav (waves 2 and 3) from wave 4 onwards: spell data on employment, unemployment and gaps integrated: bio_spells.dta/.sav Spell data measures: mn_spells.dta/.sav (from wave 2 onwards) Spell data participation in measures: massnahmespells.dta/.sav (wave 1 only) Register data on households: hh_register.dta/.sav Weighting data on households: hweights.dta/.sav
	Weighting data on individuals: pweights.dta/.sav Old-age provision household level: HAVDAT.dta/.sav (wave 3 only) Old-age provision individual level: PAVDAT.dta/.sav (wave 3 only) Vignette data: VIGDAT.dat/.sav (wave 5 only) Children data: KINDER.dat/.sav (from wave 6 onwards)

Categories	Comments
Data access	Scientific Use File (SUF)
Degree of anonymisation	Factually anonymised
Sensitive characteristics	None

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