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Nacaps 2018

Data and methods report on the National Academics Panel Study 2018 (1st-4th wave - doctoral candidates)

nacaps

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1 Content and design of the study

Nacaps 2018 is part of the survey series *National Academics Panel Study (Nacaps)*, a longitudinal study of doctoral candidates and doctoral holders in Germany. Nacaps is conducted by the German Centre for Higher Education Research and Science Studies (DZHW), funded by the Federal Ministry of Education and Research (BMBF). It is the first survey series to systematically collect data on the career and life courses of highly qualified individuals in Germany using standardised online surveys addressed to doctoral candidates and doctoral holders – for research, higher education institutions and science policy (Wegner/Briedis 2020).[1]

The Nacaps study series has a multi-cohort panel design (see Figure 1), in which (new) doctoral candidates are contacted every two years and subsequently surveyed annually. To refresh and partially supplement the doctoral candidate surveys, additional doctoral holders cohorts are to be surveyed from 2024 and integrated into the existing panel of doctoral candidates.

Figure 1:   Nacaps survey design
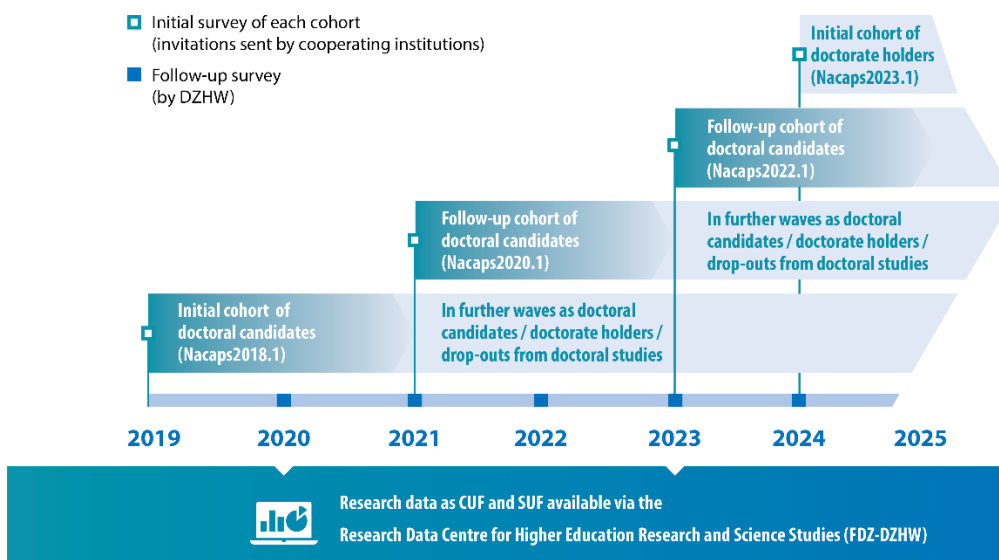
Nacaps 2018 is the first cohort of doctoral candidates and marks the start of the study series. The basic population includes all those who were registered for a PhD/doctorate at a German university on the cut-off date of 1 December 2018. The first survey wave took place from February to May 2019. The follow-up survey waves took place at annual intervals in spring (waves 2-4). Figure 2 provides an

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[1] Current information on Nacaps can be found on the project website (https://www.nacaps.de).

overview of the key data of the four Nacaps survey waves and places them in the course of the Covid19 pandemic, including the lockdowns imposed there.
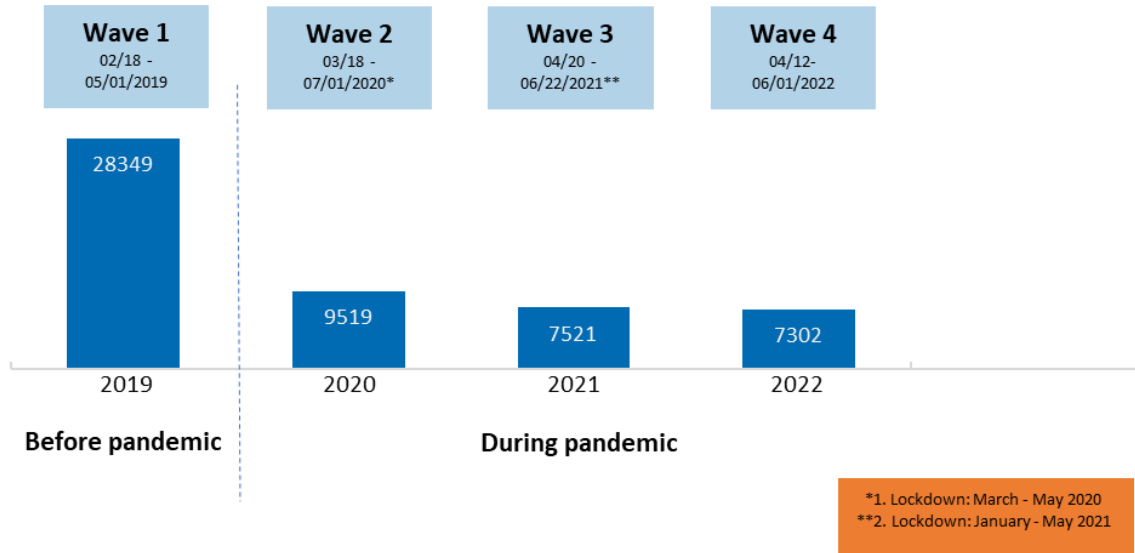
In addition to basic data for educational reporting, the data set contains detailed information on the learning and development conditions during the PhD/doctorate phase as well as on the career and life courses of doctoral holders and drop-outs from doctoral studies following their PhD/doctorate phase. In addition, the data set contains a range of personality traits (including Big Five, self-efficacy, internal/external locus of control), information on the health situation and socio- and educational background information. The survey programme is supplemented by wave-specific focus topics (e.g. science communication, Covid19 pandemic). This results in a large, previously unavailable data source for analysis for higher education research and science studies.

2   Survey instruments

In all survey waves of Nacaps 2018, the survey instrument was a standardised online questionnaire in German and English. The questionnaire was programmed and the survey was conducted using the DZHW online survey software *Zofar*.

Chapter 2.1 describes the cognitive and quantitative pretests carried out before the initial survey to test and optimize the survey instrument. Chapter 2.2 presents the central contents of the survey instruments.

2.1   Pretests

[Aim and procedure] The survey instrument was first tested using a cognitive and then a quantitative pretest before the initial survey. The aim of the cognitive pretest was to validate whether the survey instrument was suitable for the target group of doctoral candidates, whether newly developed items were equally suitable for different groups of doctoral candidates and whether they were comprehensible. The aim of the quantitative pretest was to test the survey instrument in the field under similar conditions to the main survey. On the one hand, the validity and reliability of newly developed instruments were to be tested. On the other hand, the duration of the survey, the structure of the questionnaire, the general feasibility of the online survey and the effectiveness of the incentivisation were to be tested.

[Cognitive pretest] From the 6th to the 15th of December 2017, 17 cognitive interviews with doctoral candidates were conducted face-to-face at the Hanover and Berlin locations of the DZHW by four project staff members of Nacaps. Each interview was scheduled to last 90 minutes, with the actual length of the interview ranging from 72 minutes to 110 minutes. The interviewees received 50 euros as a remuneration for their time and effort. Depending on the specific questions to be tested and the respective interest in the insights, interview techniques such as *probing* (e.g. information retrieval probing, comprehension probing), *confidence rating* and *general probing* were used (Lenzner/Neuert/Otto 2015, Prüfer/Rexroth 2000, Weichbold 2019). People from different subject groups and both women and men were interviewed (Table 1). Various questions and item batteries were tested on the topics of *path to the PhD/doctorate topic*, *types of PhD/doctorate*, *social networks and support*, *scientific activity* and *supervisor relationship*. The sequence of the topics was varied in two different versions.

Table 1:   Gender and research area (DFG) of the interviewed doctoral candidates

Research area	Gender		Total
	female	male	
Humanities and Social Sciences	4	1	5
Life Sciences	3	0	3
Natural Sciences	3	2	5
Engineering Sciences	0	4	4
Total	10	7	17

[Quantitative pretest] For the quantitative pretest, 10,089 names and email addresses of doctoral candidates and scientific staff without a PhD/doctorate were gathered on freely accessible websites of 29 German higher education institutions entitled to award PhDs/doctorates from January to March 2018. The questionnaire was programmed and the survey was conducted using the DZHW online survey software Zofar. The field phase began on the 9th of May 2018 and ended on the 31st of May 2018, during which two reminders were sent out (on the 17th and 23rd of May 2018). Of the 10,089 people contacted, 1,692 took part in the survey to completion and 3,109 filled out the survey partially. The response rate was therefore 16.7 and 30.8 percent respectively.

2.2 Contents of the survey instruments

The contents of the survey instruments are first described for the initial survey (cf. chapter 2.2.1) and then for the three follow-up surveys (cf. chapter 2.2.2).

It should be noted that some questions from the survey instruments were used secondarily from other instruments – some unmodified, some modified. The sources used for the questions concerned are listed in appendix 10.1.

2.2.1 Initial survey

At the beginning of the questionnaire in the first survey wave, respondents were asked about their current doctoral status[2]. Depending on their doctoral status, different questions were displayed in the further course of the survey.

The questionnaire was divided into six thematic blocks. *Information about the PhD/doctorate (A)*, *PhD/doctorate thesis and PhD/doctorate conditions (B)*, *everyday work in the PhD/doctoral phase (C)*, *personal life situation and career goals (D)*, *sociodemography and previous stages of education (E)* and finally aspects such as *panel willingness, newsletter, raffle and contact data (F)* were recorded.

Table 2: Thematic structure of the first survey wave

Topic	Question number
A Information about the PhD/doctorate	A1 to A20
B PhD/doctorate thesis and PhD/doctorate conditions	B1 to B47
C Everyday work in the PhD/doctoral phase	C1 to C48
D Personal life situation and career goals	D1 to D41
E Sociodemography and previous stages of education	E1 to E22
F Panel willingness, newsletter, raffle and contact data	F1 to F4

[Information about the PhD/doctorate] The thematic block on *information about the PhD/doctorate* comprised questions on motivation at the start of the PhD/doctorate, the start date in terms of content and the date of registration at the higher education institution, the name and location of the higher education institution, reasons for the choice of the higher education institution, cooperation with higher education institutions abroad or universities of applied sciences, and on the doctoral

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[2] With the four possible answers: "I am doing a PhD/doctorate", "I have completed the PhD/doctorate", "I have interrupted my PhD/doctoral project" and "I have quit my PhD/doctoral project".

subject. If the PhD/doctorate had already been completed, the date of completion was also asked; if the PhD/doctorate was quit, the date and reasons for discontinuation were recorded.

[PhD/doctorate thesis and PhD/doctorate conditions] The thematic block on *PhD/doctorate thesis and conditions* contained questions on cooperative forms of PhD/doctorates in research projects, on the PhD/doctorate topic, on subjectively perceived PhD/doctorate progress, on structured doctoral programmes, on scholarships, on courses and lectures (including satisfaction with them), on cooperation with external organisations, on the form of the PhD/doctorate (monograph vs. cumulative doctorate), on intentions to drop out, on the existence of a PhD/doctorate or supervision agreement and on the number of supervisors. It also included questions about the doctoral supervisor (affiliation, gender, formal supervision status, position, frequency of exchange, supervision style, satisfaction and likeability rating), good scientific practice, the source of funding and specific questions for doctoral candidates working at a higher education institution or research institution.

[Everyday work in the PhD/doctoral phase] The thematic block on *everyday work in the PhD/doctorates phase* consisted of questions on employment (such as fixed-term contracts, scope of employment), qualification objectives and the thematic relation to the doctoral project. Furthermore, questions were asked about specific academic activities, daily motivation to work on the doctorate, the most recent cooperative projects with other researchers or partners outside academia, the number of contact hours and stays abroad during PhD/doctorate.

[Personal life situation and career goals] The thematic block on *personal life situation and career goals* covered general life satisfaction, included questions on partners and parenthood, satisfaction with work-life balance, general state of health, physical and mental well-being and the presence of a disability. The Big Five (five factor model), general willingness to take risks, general locus of control and general self-efficacy expectations were also recorded as psychological constructs. Furthermore, instruments were developed and used to measure the importance of certain job characteristics, the attractiveness of various positions, the intention to remain in the scientific sector, sector preference, the striving for a professorship, the desire for permanent employment in academia and the specific self-efficacy expectations regarding a job in or outside academia.

[Sociodemography and previous stages of education] The thematic block *sociodemography and previous stages of education* contained questions on the respondents' gender, year and place of birth and nationality/nationalities on one hand as well as the place of birth and nationality/nationalities, school-leaving certificate, vocational training, professional status, and educational aspirations of their parents on the other hand. In addition, the place and grade of university entrance qualification and information on the studies that entitled to a PhD/doctorate were collected.

[Panel willingness, newsletter, raffle and contact data] The survey concluded with questions on panel willingness, for contacting to inform about the Nacaps results and for participation in the raffle as well as a request for contact details and the opportunity to provide comments.

2.2.2 Follow-up surveys

In each of the three follow-up surveys, the questionnaire was divided into five blocks: *PhD/doctorate thesis and PhD/doctorate conditions (A)*, *employment and everyday working life (B)*, *personal life situation and career goals (C)*, *information at the end of the survey (D)* and *panel willingness, newsletter, raffle, query of contact data (E)*.

However, it should be noted that same/similar questions were sometimes assigned to these blocks differently across the survey waves. Table 3 and Table 4 therefore contain – irrespective of the blocks within the questionnaire – an overview of which core topics were asked again in each wave, which specific focus topics were only included in individual survey waves and which questions are assigned

to the respective topics. In addition, the core topics and the wave-specific focus topics are explained in more detail.

Core topics

Table 3:	Overview of the core topics		

Topic	Question numbers		
	Wave 2	**Wave 3**	**Wave 4**
General information on the PhD/doctorate	A01 A02/A03 A04 A09/A10 A11 A13 to A15 A16/A17 A33/A34	A01 A02 A32/A33 A36 to A38 A34/A35 A39/A40 A41 to A47	A01 A02 A32/A33 A36 to A38 A34/A35 A39/A40 A41 to A47
PhD/doctorate topic/ conditions	A05 A06 to A08 A12 A18 A19 to A28 A29 to A32 A36 to A38 A39/A40 A41/A42	A31 A28 to A30 A03 to A12 A13/A14 A21/A22 A25/A26 A23/A24	A31 A28 to A30 A03 to A12 A16/A17 A23/A24 A25/A26 A13 to A15
Scientific activities during the PhD/doctorate	A35		
Mobility experiences		A48 to A58 A59 to A61	A48 to A58 A59 to A61
Financing and employment	A43 to A46 A47 A48 B01 B02 B03/B42 B04/B05 B06 B07 B08 B10 B11 B12 to B15 B16 to B18 B19/B20 B21/B22 B23/B24 B25 to B27 B28 B32 to B34 B35	A15 to A18 A19 A20 B01/A15a B06 B02/B03 B04 B11 B08/B12 B13 to B16 B41/B42 B39/B40 B09/B10 B17/B18 B20 to B22 B34 to B36	A18 to A21 A22 B01/A18a B06 B02/B03 B04 B11 B08/B12 B13 to B16 B41/B42 B39/B40 B09/B10 B17/B18 B20 to B22 B34 to B36

Note: The "Scientific activities during the PhD/doctorate" and "Mobility experiences" rows are partly merged in the original; the mobility values (A59 to A61) and scientific activity values (A48 to A58) appear in Wave 3 and Wave 4 columns.

	B36 to B40	B23 to B27	B23 to B27
	B41		
	B43 to B48	B28 to B33	B28 to B33
	B49/B50		
	B51/B52	B37/B38	B37/B38
		B05	B05/B05a
		B07	B07
		B19	B19
Personal life situation	C02 to C06	C02 to C06	C02 to C06
	C07	C07	
	C09 to C13	C10 to C14	C08 to C12
		C09	C32
Attitudes, self-assessment and goals	B29/C18	C15	C15
	B30/B31	C16/C17	C16/C17
	C01	C01	C01
	C08	C08	C07
	C14/C15	C18/C19	C18/C19
	C16/C17	C22/C23	C22/C23
	C19 to C21	C24 to C26	C24 to C26
	C22		C13/C13a/C13b
	C23		C14
	C24 to C28	C27 to C31	C27 to C31
	C34/C35	C20/C21	C20/C21
		A27	A27
Panel willingness/ contact data/raffle	E01 to E03	E01/E02	E01 to E03

[General information on the PhD/doctorate] In all three survey waves, respondents were asked about their current PhD/doctorate status (doing a PhD/doctorate, interrupted, thesis or all relevant papers submitted for examination (from the third wave onwards), completed, quit) at the beginning of the survey. If the PhD/doctorate was completed following the previous survey, respondents were also asked about the date of the completion, changes to the dissertation topic, the form of dissertation (monograph vs. cumulative) and its publication as well as the final doctoral grade. If the PhD/doctorate was quit/interrupted, the reasons for the discontinuation/interruption were recorded in the second wave and the date of discontinuation was recorded in all three waves, as well as whether the higher education institution was informed about the discontinuation/interruption. For respondents who completed or discontinued their PhD/doctorate following the previous wave, the doctoral university and the (intended) doctoral subject were also recorded (again). From the third wave onwards, respondents who had completed their PhD/doctorate since the last survey were asked about the date on which they received their doctoral certificate and whether they had received an award for their doctoral thesis. Information was also collected on the reviewers (number, institution, formal status of reviewers at universities of applied sciences, supervision status) and the self-assessed reputation of the main reviewer and the institution.

[PhD/doctorate topic/conditions] All three survey waves contained questions on the subjectively perceived progress of the doctorate, expectations of success and intentions to drop out (including reasons), the number of supervisors, the main supervisor (change, affiliation, gender, formal supervisor status, position, frequency of exchange, supervision style, satisfaction and likeability rating) and course attendance (in wave 2 including satisfaction). The second wave also included an instrument consisting of several questions to measure the learning environment in the doctoral phase as well as questions on support regarding good scientific practice and non-financial sponsorship through support programmes. In addition, in the third and fourth waves, questions were asked about cooperation with partners within and outside academia (in wave 3 including cooperation with companies and

external organisations) and about teaching commitments; only the fourth wave included questions about the membership in a doctoral programme.

[Scientific activities during the PhD/doctorate] In the second wave, questions were asked about the publication media used during the PhD/doctorate phase. From the third wave onwards, the scientific activities during the PhD/doctorate were recorded in more detail with questions on the number and format of scientific publications and contributions in consumer and online media, number of conference visits and contributions, reviews as well as applications for third-party funding and patents (submitted/approved).

[Mobility experiences] From the third wave onwards, information on stays abroad for PhD/doctorate related reasons or other academic purposes since the beginning of the PhD/doctorate were recorded using a table (type of stay, country, date of beginning, duration). The mobility intentions/plans (type of stay, country) were also surveyed.

[Financing and employment] In all three survey waves, questions on financing of living expenses of doctoral candidates and interrupters were asked first. These included sources of funding, monthly net income and self-assessed financial security. Additional questions were asked of scholarship holders, those employed at universities and recipients of parental allowance ("Elterngeld"). For doctoral holders and drop-outs the employment status was surveyed first. Those who were not employed were then asked about their financial sources and net income. For all employed persons (doctoral candidates, interrupters, doctoral holders and drop-outs), more detailed questions were asked about the period of employment, fixed-term contracts, scope of employment, the number of contracts, gross monthly income, company size, sector, adequacy, job position, academic personnel category, management responsibility and job satisfaction, as well as the place of work from the third survey onwards. In addition, several questions were asked about the scientific relation of the employment. Information was also collected on the PhD/doctorate-relation of their employment (e.g. PhD/doctorate as a contractually defined qualification objective, proportion of working time, thematic relation).

[Personal life situation] The three survey waves each contained various questions on partnership and parenthood (in waves 2 and 3 including a question on difficulties regarding family planning), general health and physical and mental well-being. In the third and fourth waves, the place of residence was also surveyed.

[Attitudes, self-assessment and goals] In all three survey waves, general life satisfaction, satisfaction with work-life balance and the following psychological constructs were recorded: general willingness to take risks, general locus of control, general self-efficacy expectations and the TEN/FLEX instrument (cf. Brandtstädter/Renner 1990). In addition, instruments were developed and used to record the importance of certain job characteristics (only in waves 2 and 4), the attractiveness of various jobs, the intention to remain in the science sector, the sector preference, the striving for a professorship, the motivation for a doctorate (only in waves 3 and 4), the desire for permanent employment in academia, plans for self-employment and the specific self-efficacy expectations with regard to an activity within or outside academia.

[Panel willingness, contact data, raffle] All three survey waves concluded with questions on panel willingness and participation in the raffle, including a request for contact details and the opportunity to provide comments.

Wave-specific topics

Table 4:	Overview of wave-specific focus topics

Topic	Question numbers		
	Wave 2	Wave 3	Wave 4
Political participation	C29 to C33 C36		
Further education	D01/D02		
Grandparents	D03 to D06		
Panel commitment		X01	
Science communication		D01 to D05	
Covid19 pandemic			D01 to D05

[Political participation] In the second survey wave, six questions focused on the topic of political participation. Respondents were asked about their interest in politics, their self-assessed aptitude for political commitment, their perceived opportunity to have an influence on politics and to take part in politics, their assessment of the extent to which politicians take their concerns into account and, finally, their own political activities in the last twelve months.

[Further education] In the second survey wave, two questions were also used to determine whether the respondents had completed a practical training phase or a professional training organised by a professional body.

[Grandparents] In the second survey wave, four questions were also asked about the grandparents' educational background, the relationship and the frequency of contact with the grandparents.

[Panel Commitment] The third survey wave was preceded by a question to record the panel commitment of the participants.

[Science communication] In the third survey wave, another focus was placed on the topic of science communication with five questions. In addition to the question of whether the survey participants engage in science communication, the type of activities, the communication media and the reasons for participation or non-participation in science communication were also surveyed.

[Covid19 pandemic] In the fourth survey wave, which was conducted in 2022, the focus was on working conditions in the context of the Covid19 pandemic. The survey asked about the scope of work, the place of work, the impact of the Covid19 pandemic on working conditions, the assessment of how the pandemic was handled by the employer and how the respondents were personally affected by the pandemic.

3 Population and sampling procedure

[Population] Based on the definition in the federal government's reporting, young researchers are defined as university graduates who, after completing their studies, take part in scientific activities or do a PhD/doctorate inside or outside of higher education institutions or non-university research institutions, as well as doctoral holders who are pursuing or intend to pursue an scientific activity inside and outside of higher education institutions and non-university research institutions. The exact definition of who is considered a doctoral candidate had not been standardised for a long time. Nacaps is therefore based on the definition of the Higher Education Statistics Act[3] and the doctoral candidates statistics introduced by the Federal Statistical Office in 2017. Accordingly, the population of doctoral candidates in Nacaps 2018 consisted of those people who were registered for a PhD/doctorate at a German university on the cut-off date of 1st December 2018. According to the Federal Statistical Office, the number of doctoral candidates in Germany defined as such totaled 173,339 in 2018 (Federal Statistical Office 2019c).

[Total universe/Complete enumeration] In the first step, all 155 universities entitled to award PhDs/doctorates (as of October 2017) were invited to participate, followed by a second step in which all (registered) doctoral candidates from the 53 participating higher education institutions were invited to take part in the survey.[4] As neither higher education institutions entitled to award PhDs/doctorates nor doctoral candidates were selected or drawn, the chosen procedure is a complete enumeration. Non-participating higher education institutions and doctoral candidates are treated as non-respondents.

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[3] Doctoral candidates are persons who have received written confirmation from an institution entitled to award doctorates that they have been accepted as a doctoral candidate at this institution (Sect. 5 (1) HStatG)
[4] It is possible that persons were still registered at one of the partner higher education institutions at the time they were contacted but had in fact already transferred to another higher education institution and the information in the survey already related to this new institution.

4 Implementation of the survey

4.1 Initial survey

[Establishing contact and maintaining addresses] Of the total of 53 participating higher education institutions, 48 participating higher education institutions sent out invitations and reminders themselves (address mediation ("Adressmittlung")) and three higher education institutions sent contact details to the DZHW, which took over the invitation and reminder dispatch (address transmission). Two participating higher education institutions were neither able to send contact details to the DZHW nor send an invitation to the survey directly. For this reason, the doctoral candidates at these two higher education institutions were asked to register for the survey on a separate website. The DZHW then invited the registered doctoral candidates to take part in the survey.

At the participating higher education institutions, invitations and reminders were mostly sent out by central offices such as graduate centres and evaluation offices, which in many cases were already known to the doctoral candidates at the higher education institution. To ensure that invitations and reminders were sent out as uniformly as possible, the DZHW provided various materials to those higher education institutions that invited their doctoral candidates to take part in the survey themselves. These included a handout and a video tutorial on sending invitations and reminders as well as mail merge letter templates for the pre-announcement, invitation and reminder letters. In addition, the participating higher education institutions were invited to a workshop on conducting the survey at the DZHW in Hanover.

[Survey documents] The survey documents included a letter of pre-announcement, a letter of invitation and three reminders. Survey participants received a personalised link to the online questionnaire with the invitation email and all subsequent reminders. The survey was programmed and conducted using the DZHW online survey software *Zofar*. Reminders were only sent to those people who had not yet fully participated in the survey. Information on data protection was provided at the beginning of the online questionnaire when asking for consent to the data protection regulations. All letters were made available to the participating higher education institutions by the DZHW and were only slightly modified by inserting the customary form of address and the respective greeting phrasing of the sending higher education institution.

[Field phase] The field phase took place from the 18th of February to the 1st of May 2019. Pre-announcement, invitation and reminders to participate in the survey were sent out on the following days (see Table 5).

| Table 5: | Dispatch dates of the survey documents of the initial survey |

Date	Survey documents
02/11/2019	Pre-announcement
02/18/2019	Invitation / start of the field phase
03/05/2019	1st Reminder
03/20/2019	2nd Reminder
04/04/2019	3rd Reminder

At some higher education institutions, the invitation was sent out a few days later than planned. At five higher education institutions, the invitation email could only be sent on the 5th of March 2019 due to organisational reasons; in another case, the invitation email was only sent on the 22nd of March 2019. Due to these delayed invitations, the field phase was not completed until the 1st of May 2019. This ensured a sufficiently long field phase for the doctoral candidates at these higher education institutions and the possibility to send out three reminders as well. A few higher education institutions had spoken out in advance against sending out three reminders and instead only sent out one or two reminders.

[Measures to increase response rate] Several measures were taken to increase the response rate. Firstly, a non-monetary promised incentive in the form of a raffle was offered with the survey invitation and reminders. The following non-cash prizes were raffled off among all participants.

- 1 x Apple iPad Pro 11" with 256 GB worth EUR 1,049
- 2 x Microsoft Surface Go with 64 GB worth EUR 429 each
- 10 x Gift vouchers ("Wunschgutschein") worth EUR 50 each
- 25 x Netflix vouchers worth EUR 25 each

In one case, a participating higher education institution offered its own additional prize draw for its own respondents.

Additionally, the participating higher education institutions were asked to make their doctoral candidates aware of the upcoming Nacaps survey before the field phase began. For this purpose, the higher education institutions were provided with posters, flyers, sample texts for news posts on websites and image material. In addition, the higher education institutions were asked to send the pre-announcement e-mail to their doctoral candidates one week before the start of the field phase. On the one hand, this was intended to make the doctoral candidates aware of the upcoming survey and the project. On the other hand, it was used to test the sending of emails by the higher education institutions. In addition to directly addressing the doctoral candidates, various accompanying public relations measures were carried out to increase the interest of doctoral candidates in the project. In order to do this, a project website (https://www.nacaps.de/) and a Twitter account (@Nacaps_Panel) were set up a few months before the start of the field phase through which contributions relevant to the target group were shared, particularly before and during the field phase.

Furthermore, the invitation and the three reminders were sent out on different days of the week. For example, the invitation was sent out on Monday, followed by the first reminder two weeks later on a

Tuesday. The second reminder a further two weeks later was sent on a Wednesday and the third reminder was also sent two weeks later on a Thursday.

As the implementation of the project on the one hand and the accessibility of the doctoral candidates on the other depend to a large extent on the willingness of higher education institutions entitled to award PhDs/doctorates to cooperate, they were also incentivised with a series of measures. Participating higher education institutions therefore were given access to a data portal that enables higher education institution-specific analyses of their own survey data. Furthermore, the participating higher education institutions were greeted with a welcome package (Nacaps coffee mug, fridge magnet, post-it notes, flyer, poster, etc.).

4.2   Follow-up surveys

[Establishing contact and maintaining addresses] In contrast to the initial survey, the invitation letters for the subsequent surveys could be sent directly to the respondents via the Nacaps email address, as the respondents were asked in the initial survey to consent to being contacted (for further surveys) and to provide their addresses. The resulting address database comprised 18,587 cases after the initial survey. This included 17,564 people (17,553 after deduction of revocation cases and data deletions) who provided a valid email address and their consent for further surveys. 15,382 people signed up for the Nacaps newsletter after the initial survey, which was sent annually – usually at the end of the year – to all subscribers with information about the project and relevant reviews, publications or conference contributions by project staff. In addition, there were occasional interim or pre-contact campaigns. During the follow-up surveys, cases of revocation, requests to discontinue contact as well as address changes and updates by means of absence notes (in the case of a newly provided address) or non-delivery messages (if possible, recourse to an alternative address) were entered into the address database.

[Survey documents and field phase] The follow-up surveys, like the initial survey, were conducted online using the DZHW's internal *Zofar* survey software. For all follow-up surveys, the invitation and reminder letters were sent by email with a personalised link to the online questionnaire.

The exact dates of the field phases of the follow-up surveys are shown in Table 6. The second survey wave started in mid-March; from the third survey wave onwards, the start of the field phase was postponed to mid-April for organisational reasons.

Table 6:	Dispatch dates of the survey documents of the follow-up surveys		

Dates	2nd wave	3rd wave	4th wave
Pre-annonunce-ment/contact cam-paigns	No pre-announcement	Christmas card, by post on 12/11/2020	Pre-announcement post-card, by post on 04/04/2022
Start	03/18/2020	04/20/2021	04/12/2022
1st reminder	03/25/2020	04/27/2021	04/20/2022
2nd reminder	04/09/2020	05/20/2021	05/05/2022
3rd reminder	Restart: 06/03/2020	06/16/2021	05/25/2022
4th reminder	06/16/2020	-	-
End	07/01/2020	06/22/2021	06/01/2022

Due to the Covid19 lockdown, the field phase of the second survey wave was extended over four months and a "restart letter" and an additional reminder were sent out to counteract the low response rate during the Covid19 pandemic.

Prior to the third survey, a Christmas card was sent by post to all panel participants with a valid postal address. Before the start of the fourth survey wave, a postal pre-announcement was sent to the panel participants (with a valid postal address).

[Measures to increase response rate] A constant measure to increase the response rate in the follow-up surveys is incentivisation through an announced raffle (technical prizes and/or vouchers). The prizes were mentioned in every letter. In most cases, a large non-cash prize (such as a fairly manufactured, up-to-date smartphone), two smaller non-cash prizes (such as two audio devices from well-known manufacturers) and ten vouchers with a value of 50 euros each were raffled off.

Furthermore, the additional contacts (second wave: field phase extension and additional reminder letter; third wave: Christmas postcard; fourth wave: pre-announcement letter) should motivate more people to participate.

5   Response rate

5.1   Initial survey

The first survey wave of Nacaps 2018 took place at 53 German higher education institutions, with all 155 higher education institutions entitled to award PhDs/doctorates in Germany being asked to take part in the survey. A complete enumeration was conducted at higher education institution level, i.e. all doctoral candidates registered on the cut-off date of 1 December 2018 were invited by the cooperating higher education institutions.

Table 7:   Participation of higher education institutions

Involved	Quantity
Higher education institutions entitled to award PhDs/doctorates	155
Participating higher education institutions	53

A total of 77,509 invitations to the survey were successfully sent out. Respondents of 28,349 questionnaires agreed to the data protection regulations, which results in an (adjusted) response rate of 36.6 percent (Table 8).

Table 8:   Gross and net response rate of the first Nacaps survey wave (according to AAPOR 2016)

Wave 1	
Invitations sent [1]	80.086
Undeliverable	2.577
Adjusted invitations sent [2]	77.509
Questionnaire link opened [3]	29.842
Consent to data protection [4]	28.349
Questionnaire content completed [5]	23.594
Response rate 1 ([3]/[1])	37,3 %
Response rate 2 ([3]/[2])	38,5 %
Response rate 3 ([4]/[1])	35,4 %
Response rate 4 ([4]/[2])	36,6 %
Response rate 5 ([5]/[1])	29,5 %
Response rate 6 ([5]/[2])	30,4 %

Figure 3 shows the development of the response rate over the entire course of the field period as a relative proportion of completed questionnaires. In addition, the times at which the three reminders were sent are marked, which show an overall increase in response.

Figure 3:   Relative proportion of completed questionnaires (in %) over the course of the field period
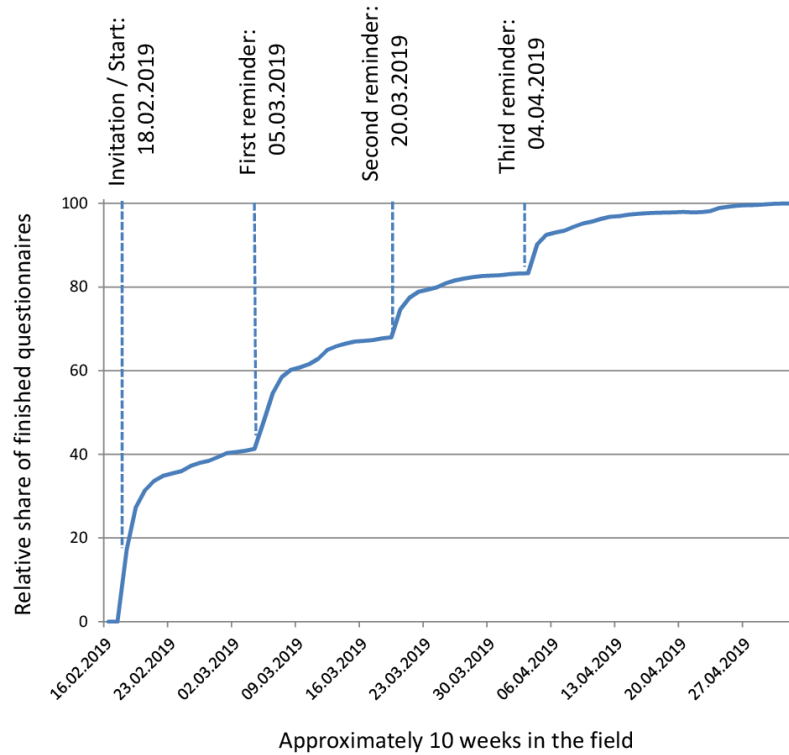
5.2   Follow-up surveys

The response rate of the follow-up surveys was recorded in the table for calculating the response rate of the American Association for Public Opinion Research (AAPOR)[5]. Table 9 shows the main response figures and the response rate according to AAPOR RR1 (minimum rate) and RR2 (including partially completed questionnaires).

Table 9:   Gross and net response rate of the Nacaps follow-up survey waves (according to AAPOR 2016)

Data	2nd wave	3rd wave	4th wave
Invitations sent [1]*	17.553	17.377	17.199
Undeliverable*	159	299	488
Adjusted invitations sent [2]*	17.394	17.078	16.711
Survey opened but not filled [3]	473	494	237
Partially completed (break-off from A01 and before C01) [4]	626	527	387
Fully completed (break-off from C01 or no break-off) [5]	8.893	6.994	6.915
Number of cases ([3]+[4]+[5])	9.992	8.015	7.539
of which usable cases ([4]+[5])	9.519	7.521	7.302
Response Rate 1 (RR1) is the minimum response rate. ([5]/[1])	50,66%	40,25%	40,21%
Response Rate 2 (RR2) counts partial interviews as respondents. ([4]+[5]/[2])	54,73%	44,04%	43,69%

* It should be noted that the number given here also includes cases that were additionally invited to the survey for other purposes and removed from the published data.

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[5] cf. https://aapor.org/response-rates/ (accessed on 16.04.2024)

6 Data preparation

6.1 Data transfer

The survey was conducted using the DZHW's own online survey system *Zofar.* The data from the online survey was delivered by *Zofar* to the Nacaps team as a .csv file and then processed as a Stata file (.dta). The raw data set was stored on a protected server.

6.2 Data checking and cleansing

The data transfer was followed by a comprehensive check of the data using the Stata statistics programme. The following checks were carried out:

[Checking the value range] In the initial survey value ranges that should not be exceeded or fallen short of were defined within the questionnaire programming to limit the extent of implausible values from the outset. If the value ranges were exceeded or undercut, the respondents were informed in red that their entry appeared implausible and were asked to correct the value. If no correction was made after the notification, the survey could still be continued. In the subsequent waves, valid value ranges were not defined and only types (numerical values or strings) were specified; in the third wave, no plausibility checks were carried out at all during the survey.

During data preparation, value ranges were not corrected subsequently. Implausible or impossible entries were retained so that the user can decide how to deal with them. An exception is made for variables for which, according to the completion instructions, only whole numbers or one decimal place should be entered. In these cases, the values were subsequently rounded and the original information was overwritten.

[Cleansing of numerical values] For open responses that required the entry of numerical values (e.g. semester hours per week), some respondents also provided text information.[6] These text entries were recoded to numerical values if a clear assignment was possible, otherwise the missing value "-966 not determinable" (see chapter 6.6) was assigned. Variables adjusted in this way were marked as generated variables (see also chapter 6.3 and 6.5).

[Filter checks] Furthermore, completeness checks were carried out regarding the filter procedure(s) on the one hand and tests for filter violations on the other (test of adherence to filter procedures). As it was possible to change information in the survey by jumping backwards and forwards, it is not possible to recognize in the data which information is correct. Therefore, no changes were made to the information and the decision as to which information should be used for the analyses can be made by the data users themselves.[7] There is an exception in cases where information was initially provided in the questions about health, but the corresponding informed consent was subsequently withdrawn by jumping back. In these cases, the original information was subsequently recoded to "-989 filtered" (see chapter 6.6).

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[6] As no response types (numerical vs. string) were defined in advance in the survey programming of the third wave, this occurred more frequently in the third wave compared to the other waves.

[7] One way to mark filter violations for data users is to create flag variables. Although filter violations occurred for the majority of the variables, they only ever affected isolated cases. As these additional flag variables would greatly inflate the data sets, the marking of filter violations with flag variables was dispensed with after weighing up the costs and benefits.

[Deletion of cases or information] Some cases or information were removed from the data set during the course of the panel. If respondents only wanted information from individual waves to be deleted, the information for these waves was set to "-995 not participated (panel)" (see chapter 6.6), but the cases were generally left in the data set. In the case of a request for complete deletion of the data, this case was removed completely.

6.3   Generation of variables

Additional variables were also generated as part of the data preparation. These are, firstly, variables with numerical coding of originally open-ended responses[8], secondly, adjusted/cleansed variables (see chapter 6.2) and thirdly, variables that were generated for data protection/anonymization reasons (see chapter 8). In the table in appendix 10.2 the variable label and the generation procedure are given for each generated variable contained in the data. In some cases, reference is made to specific lists, which can be found here:

- For higher education institution variables:
  - Destatis key list for student and examination statistics, doctoral candidates statistics WS 2018/2019 and SS 2019 (Federal Statistical Office 2019a): https://www.statistik-nord.de/fileadmin/Dokumente/Erhebungen/Hochschulstatistiken/1_Studen-ten_2_Pr%C3%BCfungen/Schluesselverzeichnis_WS_2018.xlsx, key 2.2 (higher education institutions by type of higher education institution and federal state) and key 2.3 (higher education institutions, numerical) (accessed on 09/14/2023)
- For variables on the (doctoral) subject:
  - Destatis subject classification WS 2017/2018 (Federal Statistical Office 2018): https://www.destatis.de/DE/Themen/Gesellschaft-Umwelt/Bildung-Forschung-Kul-tur/Hochschulen/Publikationen/Downloads-Hochschulen/studierende-hochschulen-endg-2110410187004.pdf, pp. 434-436 (accessed on 09/14/2023)
  - Reference list of Destatis areas of study to a project-specific subject group classification, see appendix 10.3
- For country and nationality variables:
  - Destatis classification of states and territories (as at 04/01/2019) (Federal Statistical Office 2019b): https://statistik.arbeitsagentur.de/DE/Statischer-Content/Grundlagen/Klassifika-tionen/Staats-und-Gebietssystematik/Generische-Publikationen/2019-Staats-und-Ge-bietssystematik0419-pdf.pdf (accessed on 09/14/2023)
  - NEPS-recoding map of countries: https://www.neps-data.de/Portals/0/NEPS/Daten-zentrum/Forschungsdaten/SC5/6-0-0/SC5_6-0-0_Anonymisation.pdf (Koberg 2016b), p. 33-34 (accessed on 09/14/2023)
- For income currency variables:
  - ISO 4217 Currency Codes: https://www.iso.org/iso-4217-currency-codes.html (accessed on 01/08/2024)
  - European Commission exchange rate/currency calculator: https://commission.eu-ropa.eu/funding-tenders/procedures-guidelines-tenders/information-contractors-and-ben-eficiaries/exchange-rate-inforeuro_de (accessed on 02/29/2024)

6.4   Data structure and data format

Although the data from the first to fourth survey waves were collected separately, they were merged into one data set. The cases were assigned using the respondents' identification numbers assigned

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[8] In this context, it should be noted that semi-open responses were generally not coded and coding was also omitted for some other open responses. In part, they were primarily used to check which response categories might be useful for further surveys; in part, they were exclusively auxiliary variables that were intended to provide supporting information when coding other open responses. There has not yet been sufficient capacity for coding the open responses on parents' occupation in wave 1 (question E14).

during the first fieldwork phase. There is a data record for each person surveyed (wide format). The order of the variables is based on the order of the corresponding questions in the questionnaire. Generated variables (see chapter 6.3 or appendix 10.2) were positioned following the respective initial variable(s) as far as possible. The data set is provided in both Stata and SPSS format.

6.5   Assignment of variable names and variable/value labels

[Variable and value labels] Short forms of the questionnaire wordings were chosen for variable and value labels. The variable and value labels are available in German and English. In Stata format, bilingual labels were stored in the same data set.[9] In SPSS format, there is a separate data set for each language.

[Variable naming] A prefix-root-suffix scheme was used for variable naming. The *prefix* contains the wave identifier using the letters a (wave 1), b (wave 2), c (wave 3) and d (wave 4). The root primarily indicates the thematic area to which the variable is assigned (see Table 10 for the different thematic areas and the corresponding abbreviation for the root of the variable name). The variables are also numbered within the defined thematic areas. Following that, a letter at the end of the root is used to differentiate variables that belong to the same question and thus have the same thematic differentiation and numbering (e.g. in item batteries, multiple responses or questions in which closed and open questions are combined). The *suffix* "_g#" is used to identify generated variables (see chapter 6.3).

Variables for questions that were asked in several or all waves ("panel variables") have the same variable root and, if applicable, suffix and differ only in the wave-specific prefix. If questions were modified between the waves, e.g. by adding or omitting response categories or changing wording, the variables were given a new question number within their thematic root.

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[9] The command "label language en" switches to the English labels. You can switch back to the German labels using "label language de".

Table 10:	Thematic areas and abbreviations for variable names in Nacaps 2018	

Thematic area abbreviation	Thematic area (English)	Thematic area (German)
ict*	informed consent	Informierte Einwilligung
dbi	basic information on doctoral phase	Eckdaten zur Promotion
did	interruption/drop-out	Promotionsunterbrechung und -abbruch
dtc	thesis topic and motives for PhD	Promotionsthema und -motive
dcd	conditions during doctoral phase	Promotionsbedingungen
dsv	supervisor	Betreuer*in
fin	finances	Finanzierung
emp	employment	Beschäftigungssituation
dwr	daily scientific working routine	Wissenschaftlicher Arbeitsalltag
abr	international mobility	Auslandsaufenthalte/Mobilität
psy	personality/psychic traits	Persönlichkeit/ psychische Eigenschaften
lcd	living conditions	Persönliche Lebenssituation
hea	health	Gesundheit
crg	career goals	Karriereziele
dem	demography	Demographie
par	social background	Soziale Herkunft
edb	educational biography	Bildungsbiographie
fed	further education	Berufsständische Weiterbildung
pop	participation	Partizipation
kom	science communication	Wissenschaftskommunikation
sum	panel commitment	Panel Commitment
inf	information	Information
cmt*	comment	Kommentar

*Variables with this root are not included in the published data.

6.6 Coding of missing values

The RDC-DZHW has created a comprehensive system for coding missing values to ensure standardised missing coding across different DZHW data sets. Missing values are coded with three-digit negative values. The missing coding of the Nacaps data is based on this system.

The missing codes used are shown in Table 11 highlighted in bold. They can be assigned to three different groups.[10] In the first two groups, a distinction is made between missing values due to the respondent not answering questions (item non-response, interview break-off or panel non-response) and missing values due to the filter procedure(s) or irrelevance of the question for the respondent

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[10] A possible fourth group would include special missing codes that were only assigned to individual items as part of the data preparation of a specific data set. There is also a fifth group for "other missing values" such as data loss.

(not applicable). The third group contains missing codes that were assigned by the primary research project or the RDC-DZHW in the course of data preparation (edited missing value). This group also includes the coding that was assigned due to anonymization measures (see chapter 8) for certain variables.

Table 11:	System of the RDC-DZHW for missing values		

Value range	Code	Value label
-999 to -990: Non-response	-999	don't know
	-998	**no answer**
	-997	no answer (response category)
	-996	**interview break-off**
	-995	**not participated (panel)**
	-994	refused
-989 to -970: Not applicable	**-989**	**filtered**
	-988	**does not apply**
	-987	missing by design (questionnaire split)
	-986	missing by design (wave)[a]
	-985	missing by design (cohort)[b]
-969 to -950: Edited missing value	**-969**	**unknown missing[c]**
	-968	implausible value[d]
	-967	**anonymized**
	-966	**not determinable[e]**
	-965	invalid multiple answer
-949 to -930: Item-specific missing values	*(not assigned)*	
-929 to -920: Other missing values	-929	loss of data

[a] This value is only assigned for data sets in long format.
[b] This value is only assigned in pooled data sets.
[c] This value is assigned if no cause can be reconstructed.
[d] This value is assigned if information is categorized as implausible due to various factors.
[e] This value is assigned if clear coding is not possible, e.g. if an open response could not be coded.

Explicitly pointed out should be the following special cases or deviations from the system:

▪ For the variables cdcd37a to cdcd37g, there is the category "no answer (response category)", which could be actively clicked on by the respondents and which was assigned code 4 (not code -997) analogue to the questionnaire programming.

▪ For the variables bdwr12a to bdwr12d, cdwr19a to cdwr19d and ddwr19a to ddwr19d, there is the category "does not apply (response category)", which could be actively clicked on by the respondents and to which code 6 (not code -988) was assigned analogue to the questionnaire programming.

▪ For the variables cdtc07a to cdtc07d, cdtc19a, cdtc19b, ddtc07a to ddtc07d and ddtc19a and ddtc19b there is the category "does not apply" which could be actively clicked on by the respondents and which was assigned code 2 (not code -988) analogue to the questionnaire programming. The addition "(response category)" in the value label was omitted here.

7 Representativeness of the data

[Comparison to population] The adjustment of the data of the realized sample to selected variables of the population by means of weighting is a common procedure to counteract systematic selection processes and thus optimize the representativeness of the data. Due to the current data situation, however, an adjustment weighting to the population is not yet possible, as there is currently no unbiased official data on doctoral candidates in Germany. Although registered doctoral candidates were recorded by the Federal Statistical Office for the first time on the 1st of December 2017, the doctoral candidates were under-recorded in these statistics, as the necessary organisational and technical structures that would have enabled unbiased recording were not yet in place at that time (cf. Vollmar 2019). The second survey as of the 1st of December 2018 also continues to show underreporting (Federal Statistical Office 2019c). Nevertheless, in order to obtain an overview of a possible uneven distribution between the sample (with completed survey) and the population, the distribution of people by subject group was compared between the realized sample and the data from the Federal Statistical Office (Table 12).[11]

Table 12: Distribution of doctoral candidates according to Destatis 2019 and in Nacaps 2018, 1st wave

Subject groups	Destatis 2019		Nacaps 2018, 1st wave		
	Absolute	in %	Absolute	in %	Diff.
Humanities	21.688	12,5	2.919	11,8	-0,7
Sports	1.099	0,6	165	0,7	0,1
Law, Economics and Social Sciences	30.049	17,3	4.884	19,7	2,4
Mathematics, Natural Sciences	41.810	24,1	7.024	28,3	4,2
Human Medicine, Health Sciences	36.925	21,2	3.666	14,8	-6,4
Agricultural, Forest and Nutritional Sciences, Veterinary medicine	5.158	3,0	738	3,0	0,0
Engineering Sciences	30.944	17,8	4.318	17,4	-0,4
Art, Art Theory	3.787	2,2	494	2,0	-0,2
Not specified (outside the study area structure)	2.319	1,3	578	2,3	1,0
	173.779	100,0	24.786*	100,0	

* The deviation from the values shown in chapter 5.1 is mainly due to missing values in the subject variable.

Accordingly, people doing a doctorate in law, economics and social sciences as well as in the subject group mathematics, natural sciences and in subjects which are not specified (outside the study area structure) are slightly overrepresented in the survey. In contrast, doctoral candidates from the human

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[11] The first official statistics on doctoral candidates were presented in autumn 2020 (Federal Statistical Office 2020). In these statistics, the official number of doctoral candidates has increased significantly to 182,778 compared to the 2019 report, but the shifts in the proportions between the subject groups are rather small.

medicine, health sciences subject group are slightly underrepresented. In the other subject groups, the distributions in both data sources are almost the same.

A comparison of the distributions by gender and subject group (Table 13) shows that women from the law, economics and social sciences subject group are slightly overrepresented in Nacaps. In contrast, both men and women are slightly overrepresented in the mathematics, natural sciences subject group. In the human medicine, health sciences subject group, both men and women are underrepresented; however, the difference is significantly greater for women than for men. There are no significant differences in the other subject groups. Also the differences in the distribution by gender between the Nacaps sample as a whole (51 percent men, 48 percent women, 1 percent diverse) and the information from official statistics (53 percent men and 47 percent women) are rather small.

| Table 13: | Distribution of male and female doctoral candidates according to Destatis 2019 and in Nacaps 2018, 1st wave |

Subject groups	Destatis 2019				Nacaps 2018, 1st wave			
	abso-lute, male	in % male	abso-lute, female	in % female	abso-lute, male*	in % male	abso-lute, female*	in % female
Humanities	9.541	10,3	12.147	15,0	1.009	9,1	1.595	15,2
Sports	605	0,7	494	0,6	67	0,6	85	0,8
Law, Economics and Social Sciences	15.600	16,8	14.449	17,9	2.000	18,0	2.307	21,9
Mathematics, Natural Sciences	24.230	26,1	17.380	21,5	3.398	30,6	2.747	26,1
Human medicine, Health Sciences	13.876	15,0	23.049	28,5	1.206	10,9	1.881	17,9
Agricultural, Forest and Nutritional Sciences, Veterinary medicine	1.890	2,0	3.268	4,0	194	1,7	481	4,6
Engineering Sciences	24.418	26,3	6.526	8,1	2.873	25,9	845	8,0
Art, Art Theory	1.297	1,4	2.490	3,1	114	1,0	339	3,2
Not specified (outside the study area structure)	1.221	1,3	1.098	1,4	242	2,2	248	2,4
	92.678	100,0	80.901	100,0	11.103	100,0	10.528	100,0

* The deviation from Table 12 is mainly due to missing values in the gender variable. In addition, people who stated "diverse" were not included in this analysis.

In addition, the distributions can be compared with other data sources, which themselves, however, have uncertainties regarding their representativeness. These include the statistics on completed PhD/doctorates in 2018 (Federal Statistical Office 2019d). However, one problem with the comparison with this data source is that the discontinuation of PhD/doctorates may differ systematically between subject groups, genders or other variables. In this respect, such a comparison can be made, but is probably subject to greater uncertainty than a comparison with the statistics above.[12] A comparison with an older survey on doctoral candidates in Germany conducted by the Federal Statistical Office is also possible. This is a so-called section-7-survey, which is conducted outside of the regular statistical surveys (Federal Statistical Office 2016). According to section 7 of the Federal Statistics Act, special surveys can be carried out (max. two times) to generate data for special purposes. As statistics on doctoral candidates did not exist until the amendment to the Higher Education Statistics Act in 2016

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[12] Nevertheless, if this comparison is made, doctoral candidates in the humanities (+5%) and law, economics and social sciences (+5%) are overrepresented in Nacaps, while doctoral candidates in human medicine / health sciences are underrepresented (-10%).

and the student statistics systematically underreport doctoral candidates, the section-7-survey was conducted for the first time for the 2010/11 winter semester and then again for the 2014/15 winter semester. This means that the survey for the 2014/15 winter semester is somewhat older, and the information is based on surveys of professors and doctoral candidates. In this respect, a comparison between the information on the population from this survey and Nacaps is also subject to uncertainties.[13] Another data source for comparing the distributions is the official statistics on enrolled students, which also includes enrolled doctoral candidates (Federal Statistical Office 2019e). In this data source, however, there is a significant underreporting of doctoral candidates compared to the other two data sources on doctoral candidates, as only around 110,000 doctoral candidates are recorded here. It is therefore also to be expected that a comparison with the distribution in Nacaps is fraught with uncertainty.[14]

As there are currently no completely reliable data sources for comparing subject and gender distributions for Nacaps, no reliable assessment of the representativeness of the data can be made. For the same reason, no weighting variables can be generated. However, the statistical comparisons presented should enable data users to make an initial assessment of the representativeness of the data.

[Distribution of higher education institutions] The distribution of participating and non-participating higher education institutions was also analysed. In terms of regional distribution, there are only slight differences between the north, east, south and west regions. With a participation rate of 27.6 percent, higher education institutions from the east are slightly underrepresented, while those from the north are slightly overrepresented (41.9 percent). 32.7 percent of higher education institutions from the west and 34.9 percent from the south took part. In addition, larger higher education institutions are slightly overrepresented, while smaller universities are slightly less represented. In terms of the number of professors, 21.2 percent of smaller, 37.3 percent of medium-sized and 44.2 percent of large higher education institutions took part in Nacaps.[15] This relatively high participation rate of the large higher education institutions is probably more of an advantage for the informative value of the sample, as it significantly increases the total number of participating doctoral candidates.

[Attrition analysis] Systematic or selective panel non-response can lead to biased results. To check whether panel attrition between the survey waves occurs systematically, attrition analyses were carried out. For this purpose, three logistic regression analyses were calculated, which estimate the probability of participation in waves 2, 3 and 4 (see Table 14).

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[13] When comparing these surveys, there are again differences in the humanities. This time, however, doctoral candidates from these subject groups are underrepresented in Nacaps compared to the data source used (-6 %); in law, economics and social sciences (+3 %) and human medicine / health sciences (+5 %), on the other hand, doctoral candidates are overrepresented in Nacaps.

[14] However, a comparison shows only minor deviations from the subject distribution in Nacaps. Only in the field of human medicine / health sciences are doctoral candidates overrepresented in Nacaps (+4 %).

[15] It should be noted that, given the small number of higher education institutions overall, even slight changes in participation figures have a significant impact on the percentage distribution (especially in the regional distribution). For this reason, among others, the participation rate is not reported at federal state level.

Table 14: Logistic regression of the probability of participation in waves 2, 3 and 4

		2nd wave		3rd wave		4th wave	
Gender (ref. female)	male	0,755 (0,021)	***	0,751 (0,022)	***	0,745 (0,022)	***
	diverse	0,430 (0,097)	***	0,607 (0,136)	*	0,656 (0,146)	
	no answer	0,686 (0,231)		0,724 (0,258)		0,579 (0,229)	
Age (ref. 1991-1993)	until 1984	0,798 (0,036)	***	0,895 (0,042)	*	1,013 (0,048)	
	1985-1990	0,889 (0,074)	***	0,940 (0,033)		0,961 (0,034)	
	1994 and younger	1,095 (0,052)		1,003 (0,072)		0,977 (0,071)	
	no answer	0,270 (0,052)	***	0,352 (0,071)	***	0,331 (0,070)	***
Country of the higher education entrance qualification (ref. Germany)	abroad	0,547 (0,021)	***	0,473 (0,020)	***	0,488 (0,021)	***
	no answer	0,065 (0,027)	***	0,036 (0,019)	***	0,016 (0,012)	***
Parents' highest vocational qualification (ref. no higher education degree)	PhD/doctorate	1,073 (0,043)		1,017 (0,043)		1,145 (0,049)	**
	other higher education degree	1,100 (0,033)	**	1,090 (0,034)	**	1,091 (0,034)	**
	no answer	0,472 (0,067)	***	0,576 (0,086)	***	0,615 (0,092)	**
Self-efficacy (ref. 3 "medium")	1-2 low	0,998 (0,119)		1,050 (0,131)		1,084 (0,137)	
	4-5 high	1,164 (0,051)	***	1,105 (0,051)	*	1,164 (0,055)	**
	no answer	0,376 (0,096)	***	0,495 (0,129)	**	0,531 (0,143)	**
Status of PhD/doctorate (ref. doing PhD/doctorate)	completed	3,035 (0,780)	***	2,075 (0,542)	**	2,060 (0,557)	**
	interrupted	0,892 (0,093)		0,984 (0,106)		1,048 (0,112)	
	quit	1,696 (0,492)		0,087 (0,267)		1,238 (0,267)	
	no answer	7,026 (7,799)		8,102 (9,208)		-	
Subject group (ref. Humanities)	Sports	0,986 (0,158)		0,885 (0,146)		1,032 (0,169)	
	Law, Economics and Social Sciences	0,868 (0,042)	**	0,836 (0,042)	***	0,868 (0,044)	**
	Mathematics, Natural Sciences	0,725 (0,035)	***	0,795 (0,039)	***	0,785 (0,039)	***
	Human medicine, Health Sciences	0,569 (0,032)	***	0,549 (0,032)	***	0,561 (0,034)	***
	Agricultural, Forest and Nutritional Sciences	0,656 (0,058)	***	0,726 (0,067)	**	0,719 (0,067)	***
	Engineering Sciences	0,653 (0,036)	***	0,659 (0,038)	***	0,685 (0,039)	***
	Art, Art Theory	0,923 (0,092)		0,913 (0,094)		0,864 (0,090)	
	no answer	0,761 (0,072)	**	0,781 (0,078)	*	0,726 (0,074)	**
Federal state of the doctoral higher education institute (ref. Schleswig-Holstein)	Hamburg	1,054 (0,111)		1,009 (0,111)		1,031 (0,114)	
	Lower Saxony	0,792 (0,087)	*	0,826 (0,095)		0,824 (0,095)	
	North Rhine-Westphalia	0,802 (0,074)	*	0,819 (0,079)	*	0,865 (0,083)	
	Hesse	0,794 (0,079)	*	0,864 (0,089)		0,878 (0,092)	
	Rhineland-Palatinate	0,747 (0,076)	**	0,781 (0,083)	*	0,746 (0,081)	**
	Baden-Wuerttemberg	0,965 (0,090)		0,966 (0,095)		0,991 (0,098)	
	Bavaria	0,942 (0,087)		0,938 (0,091)		0,991 (0,088)	
	Saarland	0,660 (0,078)		0,788 (0,097)		0,662 (0,084)	**
	Berlin	0,982 (0,102)		1,049 (0,113)		1,032 (0,112)	
	Brandenburg	1,154 (0,134)		1,087 (0,131)		1,139 (0,138)	
	Saxony	1,009 (0,113)		1,090 (0,127)		1,022 (0,120)	
	Saxony-Anhalt	0,792 (0,109)		0,879 (0,128)		0,751 (0,112)	
	Thuringia	0,750 (0,087)	*	0,829 (0,101)		0,936 (0,114)	
	no answer	1,238 (0,169)		1,279 (0,178)		1,176 (0,165)	
employed in science (ref. no)	yes	1,242 (0,038)	***	1,260 (0,041)	***	1,239 (0,041)	***
	no answer	0,470 (0,189)		0,461 (0,209)		0,376 (0,203)	
	Pseudo-R²	0,14		0,12		0,11	
	N	28.763		28.763		28.561	

Notes: Odds ratios, standard errors in parentheses; *** p<0.001, ** p<0.01, * p<0.05; The deviation from the number of cases shown in Table 8 is due to the fact that the analysis also included cases that were additionally invited to the survey for other purposes and removed from the published data.

In order to investigate the extent to which the probability of participation in the follow-up waves is related to the characteristics of the respondents (MAR), the explanatory models contain demographic variables (gender, age, country of higher education entrance qualification, parents' highest vocational qualification), personality traits (self-efficacy) and contextual variables of the PhD/doctorate (status of PhD/doctorate in wave 1, doctoral subject, federal state of the doctoral higher education institution, employment in science during the doctorate) as independent variables, which were collected as part of the initial survey and recorded for all status groups. Missing values on the explanatory variables were each considered as a separate category in the analyses[16]. This shows that unit nonresponse on variables in the model from the initial survey is largely a strong predictor of panel attrition in the follow-up surveys.

Compared to female respondents, male respondents were significantly less likely to take part in the second, third and fourth surveys. People with the gender identity "diverse" were also less likely to participate in the second and third waves. Age also had an influence on participation behaviour. People born before 1991 were significantly less likely to participate in the second survey, and a negative effect can also be shown for the third wave for the oldest category of those born up to and including 1984. A higher education entrance qualification obtained abroad significantly reduces the probability of participation in all three follow-up surveys. Compared to respondents from non-academic parental homes, a higher education degree from one or both parents favours the probability of participation in all three follow-up surveys. A positive effect on the probability of participating in the fourth wave can also be demonstrated if at least one parent has completed a PhD/doctorate themselves. In addition, a high expectation of self-efficacy increases the probability of participating in the follow-up surveys.

Respondents who had already completed their PhD/doctorate at the time of the initial survey were significantly more likely to take part in the follow-up surveys than doctoral candidates. An interrupted or discontinued PhD/doctorate, on the other hand, has no effect on the probability of participation. At the same time, subject effects can be observed. Compared to the reference category of respondents from the subject group of humanities, a significantly negative effect on the probability of participation in the follow-up waves can be demonstrated for all subject groups – with the exception of the subject groups of sports and art / art theory. Significant differences in participation in the follow-up waves can also be found in the federal states in which the higher education institutions are located. Compared to Schleswig-Holstein, which is the reference category here, significant negative effects can be found for Lower Saxony (second wave), North Rhine-Westphalia (second and third wave), Hesse (second wave), Rhineland-Palatinate (all waves), Saarland (fourth wave) and Thuringia (second wave). Finally, the field of employment during the PhD/doctorate also has an influence on participation in the follow-up surveys. For example, being employed in science during the PhD/doctorate favours participation in the Nacaps follow-up surveys.

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[16] Cases with missing values on the variable "doctoral status" in the model for estimating the probability of participation in the fourth wave are an exception. All respondents with missing values on this variable did not participate in the fourth survey, so Stata excluded these 202 cases from the analyses.

8   Anonymization

[Legal Framework] The EU General Data Protection Regulation (GDPR) and the Federal Data Protection Act (BDSG) in its revised version of 30 June 2017 apply to personal data[17] collected by the DZHW in voluntary surveys.[18] Accordingly, personal data for secondary scientific use (without a declaration of consent for secondary use of the personal data) must be processed "in such a manner that the personal data can no longer be attributed to a specific data subject without the use of additional information, provided that such additional information is kept separately and is subject to technical and organisational measures to ensure that the personal data are not attributed to an identified or identifiable natural person" (Art. 4 para. 5 GDPR; see also Art. 89 GDPR and Recital 26 GDPR).

[Ensuring data protection at the RDC-DZHW] At the RDC-DZHW, the data protection of the respondents is ensured by a combination of legal/organisational, technical and statistical measures.[19] The combinations result in four potential access ways, which are summarized in Table 15.[20]

Table 15:	Access ways in the RDC-DZHW

	Scientific Use File (SUF): On-Site	Scientific Use File (SUF): Remote Desktop	Scientific Use File (SUF): Download	Campus Use File (CUF): Download
legal-organisational measures	high	moderate	low	very low
technical measures	high	moderate	low	very low
statistical measures	low	moderate	high	very high

The more data access is legally/organisationally and technically controlled and restricted, the lower the risk of de-anonymization of the data. Following, the data must be anonymized less by means of statistical measures. Therefore the information is less reduced in this case, which means the greater its analysis potential remains.

All access ways are available for the Nacaps 2018 data. The specific statistical anonymization measures carried out are explained in more detail below.

[Statistical anonymization measures] As part of the statistical anonymization measures, all information was first checked to see whether it could be used to directly identify individuals. These *direct*

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[17] "'Personal data' means any information relating to an identified or identifiable natural person ('data subject'); an identifiable natural person is one who can be identified, directly or indirectly, in particular by reference to an identifier such as a name, an identification number, location data, an online identifier or to one or more factors specific to the physical, physiological, genetic, mental, economic, cultural or social identity of that natural person" (Art. 4 para. 1 GDPR).

[18] The GDPR generally applies within the EU and therefore also to the DZHW. The BDSG in its new version of 30 June 2017 (Act to Adapt Data Protection Law to the Regulation (EU) 2016/679 and to Implement Directive (EU) 2016/680, (Data Protection Adaptation and Implementation Act-EU (DSAnpUG-EU)) also applies in part, as the DZHW GmbH is legally considered a public body of the federal government (sect. 2 para. 3 BDSG). The federal government holds the absolute majority of shares in DZHW GmbH and the institute fulfils public administration tasks for the federal government in the broadest sense.

[19] The RDC's data protection concept is based on the portfolio approach of Lane, Heus and Mulcahy (2008, 6ff.), which is already used by the Leibniz Institute for Educational Trajectories (LIfBi) (cf. Koberg, 2016a, 699ff.) and the RDC of the German Federal Employment Agency at the Institute for Employment Research (cf. Hochfellner, Müller, Schmucker & Roß, 2012, 9f.).

[20] For more detailed information, see https://www.fdz.dzhw.eu/en/data-usage

identifiers, such as names, addresses and email addresses, were already recorded in a separate data set during the fieldwork phase and are therefore not included in the data per se. The original identification number was removed and replaced by a new randomly assigned identification number.

In addition, Ebel and Meyermann's recommendation to delete open responses was followed even if the questions themselves are unproblematic. This is because there is a risk that study participants may have disclosed critical information in actually harmless questions with open response option that could lead to identification (Ebel & Meyermann, 2015, p. 5).

After that, quasi-identifiers were determined, i.e. information that, in combination or by adding external information, is suitable for indirectly identifying a person. To prevent unambiguous association of the data, these key characteristics – depending on the access way – are available in an aggregated form or anonymized completely.

Finally, the data was checked for sensitive information, e.g. on health, sexual orientation and political attitudes, for which no additional consent for secondary use was obtained from the respondents. Although this is not necessarily suitable for the re-identification of individuals or institutions, the information can be useful in the event of de-anonymization (cf. Koberg, 2016a, p. 694) and is therefore particularly worthy of protection (Art. 9 GDPR, Recital 51 GDPR). The sensitive information is – depending on the access way – not released or only released in aggregated form.

The tables in appendix 10.4 provide an overview of the variables from the data provided for which there are restrictions on the access ways or which variables were newly generated as "substitute variables" for variables with restricted access ways. For example, the doctoral subject/discipline coded according to Destatis subject classification (adbi15_g0/bdbi15_g0/cdbi15_g0/ddbi15_g0) and its aggregation to Destatis areas of study (adbi15_g1/bdbi15_g1/cdbi15_g1/ddbi15_g1) are anonymized completely for all access ways, the aggregation to Destatis subject groups (adbi15_g2/bdbi15_g2/cdbi15_g2/ddbi15_g2) can, however, be used via all access ways. In addition, a slightly less aggregated subject group (adbi15_g3/bdbi15_g3/cdbi15_g3/ddbi15_g3) can only be used via the remote desktop and on-site access ways.

For the access way "Campus Use File (CUF): Download", in addition to the information reduction at variable level, a randomly selected subsample of the data (25 % of respondents) was drawn, i.e. the number of cases was also reduced.

9 Literature

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10 Appendix

10.1 Documentation of the origin of secondarily used questions

Note: The citation was taken from the German data and methods report and was not translated. The abbreviation "S." stands for "Seite", i.e. "page (p.)". The access date corresponds to the German date format, i.e. DD.MM.YYYY.

Table 16:	Wave 1: Documentation of the origin of secondarily used questions

Question number	Original (O)/ Modified (M)	Citation
A03	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 247-248. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 250-251. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires Eval 2013-2016. Version 1.1 (December 2016), S. 149. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_EVAL_Questionnaires2013_2016.pdf (accessed on 03.07.2023).
A05	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 34. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 33-34. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023).
A06	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 3. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 33, 180. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 32, 157. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023).
A07	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 33. https://www.risis2.eu/wp-

		content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).
		Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 157. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023).
A09	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 33. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).
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A13	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 249. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).
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A15	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 35. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).
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B04	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 31. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).
B06	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 38. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).
		Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 38. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023).
B07	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 39-42. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).
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B10	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 70-71. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).

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B11	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 70-71. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 76. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023). Jaksztat, S., Schindler, N. & Briedis, K. (2012). Promotionen im Fokus. Promotions- und Arbeitsbedingungen Promovierender im Vergleich. HIS:Forum Hochschule 15/2012. Hannover: HIS Hochschul-Informations-System GmbH, S. 135. https://www.dzhw.eu/pdf/pub_fh/fh-201215.pdf (accessed on 03.07.2023). FDZ-LIfBi (2023). Codebook. NEPS Startkohorte 5 - Studierende. Hochschulstudium und Übergang in den Beruf. Scientific Use File Version 18.0.0, S. 2742ff.. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/SC5/18-0-0/SC5_18-0-0_Codebook_de.pdf (accessed on 15.06.2023).
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D28	M	Krempkow, R., Sembritzki, T., Schürmann, R. & Winde, M. (2016). Personalentwicklung für den wissenschaftlichen Nachwuchs. Bedarf, Angebote und Perspektiven – eine empirische Bestandsaufnahme im Zeitvergleich. Essen, S. 8. https://www.stifterverband.org/download/file/fid/2151 (accessed on 05.06.2023). Sauermann, H. & Roach, M. (2012). Science PhD Career Preferences: Levels, Changes, and Advisor Encouragement. PLoS ONE 7(5): e36307. doi:10.1371/journal.pone.0036307 (S. 2-3).
D29	M	Krempkow, R., Sembritzki, T., Schürmann, R. & Winde, M. (2016). Personalentwicklung für den wissenschaftlichen Nachwuchs. Bedarf, Angebote und Perspektiven – eine empirische Bestandsaufnahme im Zeitvergleich. Essen, S. 8. https://www.stifterverband.org/download/file/fid/2151 (accessed on 05.06.2023). Roach, M., & Sauermann, H. (2010). A taste for science? PhD scientists' academic orientation and selfselection into research careers in industry. Research Policy 39 (3), S. 422–434. https://doi.org/10.1016/j.respol.2010.01.004 (S. 425-426).

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D34	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 104, 206, 269. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires Eval 2013-2016. Version 1.1 (December 2016), S. 134, 177. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_EVAL_Questionnaires2013_2016.pdf (accessed on 03.07.2023).
D38	M	Jaksztat, S., Schindler, N. & Briedis, K. (2010). Wissenschaftliche Karrieren. Beschäftigungsbedingungen, berufliche Orientierungen und Kompetenzen des wissenschaftlichen Nachwuchses. HIS: Forum Hochschule 14/2010. Hannover: HIS Hochschul-Informations-System GmbH, S. 95. https://www.dzhw.eu/pdf/pub_fh/fh-201014.pdf (accessed on 04.07.2023).
D39	M	Jaksztat, S., Schindler, N. & Briedis, K. (2010). Wissenschaftliche Karrieren. Beschäftigungsbedingungen, berufliche Orientierungen und Kompetenzen des wissenschaftlichen Nachwuchses. HIS: Forum Hochschule 14/2010. Hannover: HIS Hochschul-Informations-System GmbH, S. 95. https://www.dzhw.eu/pdf/pub_fh/fh-201014.pdf (accessed on 04.07.2023).
D41	M	Jaksztat, S., Schindler, N. & Briedis, K. (2012). Promotionen im Fokus. Promotions- und Arbeitsbedingungen Promovierender im Vergleich. HIS:Forum Hochschule 15/2012. Hannover: HIS Hochschul-Informations-System GmbH, S. 143. https://www.dzhw.eu/pdf/pub_fh/fh-201215.pdf (accessed on 03.07.2023). Briedis, K., Jaksztat, S., Preßler, N., Schürmann, R. & Schwarzer, A. (2014). Berufswunsch Wissenschaft? Laufbahnentscheidungen für oder gegen eine wissenschaftliche Karriere. Forum Hochschule 8/2014. Hannover: Deutsches Zentrum für Hochschul- und Wissenschaftsforschung GmbH, S. 132. https://www.dzhw.eu/pdf/pub_fh/fh-201408.pdf (accessed on 03.07.2023).
E04	M	TNS Infratest Sozialforschung (2016b). SOEP 2016 – Erhebungsinstrumente 2016 (Welle 33) des Sozio-oekonomischen Panels: Lebenslauffragebogen, Stichproben A-L3. SOEP Survey Papers 347: Series A - Survey Instruments (Erhebungsinstrumente). Berlin: DIW/SOEP, S. 5. https://www.diw.de/documents/publikationen/73/diw_01.c.570936.de/diw_ssp0347.pdf (accessed on 01.11.2023).
E10	M	TNS Infratest Sozialforschung (2016b). SOEP 2016 – Erhebungsinstrumente 2016 (Welle 33) des Sozio-oekonomischen Panels: Lebenslauffragebogen, Stichproben A-L3. SOEP Survey Papers 347: Series A - Survey Instruments (Erhebungsinstrumente). Berlin: DIW/SOEP, S. 5. https://www.diw.de/documents/publikationen/73/diw_01.c.570936.de/diw_ssp0347.pdf (accessed on 01.11.2023).
E17	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). Schule! Und dann? Erste Befragung von Schülerinnen und Schülern des Abschlussjahrgangs 2017/2018. FDZ-DZHW, S. 2. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gsl2018-ins1$-1.0.0/attachments/gsl2018_W1_Questionnaire_de.pdf (abgerufen 04.07.2023). FDZ-LIfBi (2023). Codebook. NEPS Startkohorte 5 - Studierende. Hochschulstudium und Übergang in den Beruf. Scientific Use File Version 18.0.0, S. 1996, 1998. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/SC5/18-0-0/SC5_18-0-0_Codebook_de.pdf (accessed on 15.06.2023).

Table 17:	Wave 2: Documentation of the origin of secondarily used questions

Question number	Original (O)/ Modified (M)	Citation
A03	M	cf. question A03 in wave 1
A06	M	Bergann, S., Blüthmann, I., Neugebauer, M. & Watermann, R. (2019). Welche Rolle spielen Leistungsselbsteinschätzungen und Erfolgserwartungen für die Absicht, ein Masterstudium aufzunehmen?. Zeitschrift für Erziehungswissenschaft (ZfE), 22, 967–988. https://doi.org/10.1007/s11618-019-00899-9 (S. 976-977).

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A07	M	cf. question B19 in wave 1
A08	M	cf. question B20 in wave 1
A11	M	cf. question A13 in wave 1
A12	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 2. https://metadata.fdz.dzhw.eu/public/files/instruments/insphd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 09.10.2023).

de Vogel, S., Brandt, G. & Jaksztat, S. (2017). Ein Instrument zur Erfassung der Lernumwelt Promotionsphase. Zeitschrift für empirische Hochschulforschung (ZeHf), Jg. 1, Heft 1, S. 24-44. https://doi.org/10.3224/zehf.v1i1.02 (S. 42). |
A18	M	cf. question B22 in wave 1
A21	M	cf. question B26 in wave 1
A23	M	cf. question B28 in wave 1
A24	M	cf. question B29 in wave 1
A25	M	cf. question B31 in wave 1
A26	M	cf. question B32 in wave 1
A27	M	cf. question B33 in wave 1
A32	M	cf. question B21 in wave 1
A34	M	cf. question B18 in wave 1
A36	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 4. https://metadata.fdz.dzhw.eu/public/files/instruments/insphd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 09.10.2023).

de Vogel, S., Brandt, G. & Jaksztat, S. (2017). Ein Instrument zur Erfassung der Lernumwelt Promotionsphase. Zeitschrift für empirische Hochschulforschung (ZeHf), Jg. 1, Heft 1, S. 24-44. https://doi.org/10.3224/zehf.v1i1.02 (S. 42). |
| A37 | M | Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 3. https://metadata.fdz.dzhw.eu/public/files/instruments/insphd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 09.10.2023).

de Vogel, S., Brandt, G. & Jaksztat, S. (2017). Ein Instrument zur Erfassung der Lernumwelt Promotionsphase. Zeitschrift für empirische Hochschulforschung (ZeHf), Jg. 1, Heft 1, S. 24-44. https://doi.org/10.3224/zehf.v1i1.02 (S. 43). |

A38	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 4. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 09.10.2023).
		de Vogel, S., Brandt, G. & Jaksztat, S. (2017). Ein Instrument zur Erfassung der Lernumwelt Promotionsphase. Zeitschrift für empirische Hochschulforschung (ZeHf), Jg. 1, Heft 1, S. 24-44. https://doi.org/10.3224/zehf.v1i1.02 (S. 43).
A42	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 4. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 09.10.2023).
		de Vogel, S., Brandt, G. & Jaksztat, S. (2017). Ein Instrument zur Erfassung der Lernumwelt Promotionsphase. Zeitschrift für empirische Hochschulforschung (ZeHf), Jg. 1, Heft 1, S. 24-44. https://doi.org/10.3224/zehf.v1i1.02 (S. 43).
A43	M	cf. question B38 in wave 1
A45	M	cf. question B43 in wave 1
A47	M	cf. question B39 in wave 1
A48	M	cf. question B44 in wave 1
B01	M	oben: Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2009 (1. Befragungswelle). Version 1.0.0. FDZ-DZHW, S. 11. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins1$-2.0.0/attachments/gra2009_W1_Questionnaire_de.pdf (accessed on 15.06.2023).
		unten: Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 4. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023).
		Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 80-81, 144-145, 215-216. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI-IEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023).
		Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 91-92, 193-194, 256-257. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023).
		Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires Eval 2013-2016. Version 1.1 (December 2016), S. 54-55, 123-124, 166-167. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_EVAL_Questionnaires2013_2016.pdf (accessed on 03.07.2023).
		Statistisches Bundesamt (2013). Hochqualifizierte in Deutschland. Erhebung zu Karriereverläufen und internationaler Mobilität von Hochqualifizierten. Statistisches Bundesamt/Wiesbaden, S. 64. https://ids.hof.uni-halle.de/documents/t2137.pdf (accessed on 01.11.2023).

B04	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 2. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Questionnaire_de.pdf (accessed on 20.06.2023)
B05	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 4. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 80-81, 144-145, 215-216. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Questionnaires2009_2012.pdf (accessed on 03.07.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 91-92, 193-194, 256-257. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Questionnaires2013_2016.pdf (accessed on 03.07.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires Eval 2013-2016. Version 1.1 (December 2016), S. 54-55, 123-124, 166-167. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_EVAL_Questionnaires2013_2016.pdf (accessed on 03.07.2023). Statistisches Bundesamt (2013). Hochqualifizierte in Deutschland. Erhebung zu Karriereverläufen und internationaler Mobilität von Hochqualifizierten. Statistisches Bundesamt/Wiesbaden, S. 64. https://ids.hof.uni-halle.de/documents/t2137.pdf (accessed on 01.11.2023).
B07	M	cf. question B43 in wave 1
B08	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). DZHW-Promoviertenpanel 2014. Fragebogen 3. Befragungswelle. FDZ-DZHW, S. 19. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins3$-4.0.0/attachments/phd2014_W3_Questionnaire_de.pdf (accessed on 27.02.2024)
B12	M	cf. question C04/C14/C24 in wave 1
B14	M	cf. question C06/C16/C26 in wave 1
B15	M	cf. question C07/C17/C27 in wave 1
B19	M	cf. question C11/C21/C31/C32/C33 in wave 1
B21	M	cf. question C05/C15/C25 in wave 1
B23	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2021). DZHW-Absolventenpanel 2013. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2013 (1. Befragungswelle). FDZ-DZHW, S. 12. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2013-ins1$-3.0.0/attachments/gra2013_W1_Questionnaire_de.pdf (accessed on 01.11.2023).
B24	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2021). DZHW-Absolventenpanel 2013. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2013 (1. Befragungswelle). FDZ-DZHW, S. 11. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2013-ins1$-3.0.0/attachments/gra2013_W1_Questionnaire_de.pdf (accessed on 01.11.2023).
B26	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 8. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-

		ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Questionnaire_de.pdf (accessed on 20.06.2023)
B27	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2023). Fragebogen. Absolventenbefragung 2017, allgemeine Version. FDZ-DZHW, S. 32. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2017-ins1$-1.0.0/attachments/gra2017_W1_allgemein_Questionnaire_de.pdf (accessed on 09.10.2023).
B28	M	cf. question D27 in wave 1
B29	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 7. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Questionnaire_de.pdf (accessed on 20.06.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Fragebogen zu Welle 2 der bundesweiten Promoviertenbefragung. FDZ-DZHW, S. 59. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins2$-4.0.0/attachments/phd2014_W2_Questionnaire_de.pdf (accessed on 20.06.2023).
B35	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 8, 17. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Questionnaire_de.pdf (accessed on 20.06.2023)
B36	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 8, 17. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Questionnaire_de.pdf (accessed on 20.06.2023)
B42	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2021). DZHW-Absolventenpanel 2013. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2013 (1. Befragungswelle). FDZ-DZHW, S. 10, 21. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2013-ins1$-3.0.0/attachments/gra2013_W1_Questionnaire_de.pdf (accessed on 01.11.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 5, 18. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 09.10.2023).
B43	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 13. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 09.10.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2009 (1. Befragungswelle). Version 1.0.0. FDZ-DZHW, S. 14. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins1$-2.0.0/attachments/gra2009_W1_Questionnaire_de.pdf (accessed on 15.06.2023).
B44	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires 2009-2012. Version 1.1 (December 2016), S. 85, 148, 219.

https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INIEVAL_Question-naires2009_2012.pdf (accessed on 03.07.2023).

Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires in Initial Surveys 2013-2016. Version 1.1 (January 2016), S. 97, 199, 262. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_INI_Question-naires2013_2016.pdf (accessed on 03.07.2023).

Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2016). ProFile Questionnaires Eval 2013-2016. Version 1.1 (December 2016), S. 59, 127, 170. https://www.risis2.eu/wp-content/uploads/2017/11/ProFile_EVAL_Question-naires2013_2016.pdf (accessed on 03.07.2023).

B45	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enko-horte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 10. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Question-naire_de.pdf (accessed on 20.06.2023)
B46	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enko-horte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 10. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Question-naire_de.pdf (accessed on 20.06.2023)
B47	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enko-horte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 10. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Question-naire_de.pdf (accessed on 20.06.2023)
B48	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enko-horte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-DZHW, S. 10. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Question-naire_de.pdf (accessed on 20.06.2023)
B49	M	cf. question C35 in wave 1
B50	M	cf. question C36 in wave 1
B52	M	Stegmann, S., van Dick, R., Ullrich, J., Charalambous, J., Menzel, B., Egold, N. & Wu, T. T.-C. (2010). Der Work Design Questionnaire. Vorstellung und erste Validierung einer deutschen Version. Zeitschrift für Arbeits- und Organisationspsychologie 54, S. 1-28. Hogrefe Verlag. https://doi.org/10.1026/0932-4089/a000002 (S. 24-25).
C01	M	cf. question D01 in wave 1
C02	M	cf. question D02 in wave 1
C03	M	cf. question D03 in wave 1
C06	M	cf. question D09/D10 in wave 1
C07	M	cf. question D11 in wave 1
C08	M	cf. question D12 in wave 1
C09	M	cf. question D13 in wave 1
C11	M	cf. question D15 in wave 1
C12	M	cf. question D16 in wave 1
C13	M	cf. question D17 in wave 1
C14	M	cf. question D26a in wave 1
C15	M	cf. question D41 in wave 1
C16	M	cf. question D28 in wave 1
C17	M	cf. question D29 in wave 1
C18	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Absolventenpanel 2009. Fragebogen zu der Erhebung der Absolvent(inn)enko-horte 2009 (2. Befragungswelle, Hauptbefragung, PAPI). Version 1.0.0. FDZ-

		DZHW, S. 7. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2009-ins2$-2.0.0/attachments/gra2009_W2_Main_PAPI_Questionnaire_de.pdf (accessed on 20.06.2023). Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Fragebogen zu Welle 2 der bundesweiten Promoviertenbefragung. FDZ-DZHW, S. 59. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins2$-4.0.0/attachments/phd2014_W2_Questionnaire_de.pdf (accessed on 20.06.2023).
C21	M	cf. question D34 in wave 1
C22	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2021). DZHW-Absolventenpanel 2013. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2013 (1. Befragungswelle). FDZ-DZHW, S. 14. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2013-ins1$-3.0.0/attachments/gra2013_W1_Questionnaire_de.pdf (accessed on 01.11.2023).
C23	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2021). DZHW-Absolventenpanel 2013. Fragebogen zu der Erhebung der Absolvent(inn)enkohorte 2013 (1. Befragungswelle). FDZ-DZHW, S. 14. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-gra2013-ins1$-3.0.0/attachments/gra2013_W1_Questionnaire_de.pdf (accessed on 01.11.2023).
C27	M	cf. question D38 in wave 1
C28	M	cf. question D39 in wave 1
C29	M	European Social Survey (ESS) (2020). ESS10 Paper Questionnaire, S. 3. https://www.europeansocialsurvey.org/sites/default/files/2023-06/ESS10-Paper-Questionnaire-English-Templat.pdf (accessed on 27.02.2024). FDZ-LIfBi (2023). Codebook. NEPS Startkohorte 5 - Studierende. Hochschulstudium und Übergang in den Beruf. Scientific Use File Version 18.0.0, S. 1365. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/SC5/18-0-0/SC5_18-0-0_Codebook_de.pdf (accessed on 15.06.2023).
C30	M	European Social Survey (ESS) (2020). ESS10 Paper Questionnaire, S. 3. https://www.europeansocialsurvey.org/sites/default/files/2023-06/ESS10-Paper-Questionnaire-English-Templat.pdf (accessed on 27.02.2024).
C31	M	European Social Survey (ESS) (2020). ESS10 Paper Questionnaire, S. 3. https://www.europeansocialsurvey.org/sites/default/files/2023-06/ESS10-Paper-Questionnaire-English-Templat.pdf (accessed on 27.02.2024).
C32	M	European Social Survey (ESS) (2020). ESS10 Paper Questionnaire, S. 3. https://www.europeansocialsurvey.org/sites/default/files/2023-06/ESS10-Paper-Questionnaire-English-Templat.pdf (accessed on 27.02.2024).
C33	M	German Internet Panel (GIP) (2019). Questionnaire W2. 2019/07.Universität Mannheim, SFB 884, S. 10. https://github.com/paneldata/gip/raw/master/pdfs/W42.pdf (accessed on 07.03.2024). (Question C33 in the Nacaps questionnaire in wave 2 is based on „Question Page 5: caring about citizens (consistent order) [AJ42046]" from the German Internet Panel wave 42 (https://doi.org/10.4232/1.13465; https://paneldata.org/gip/datasets/GIP_W42_V1/AJ42046), (Blom et al. 2019). A study description can be found in Blom, A. G., Gathmann, C., and Krieger, U. (2015). Setting Up an Online Panel Representative of the General Population: The German Internet Panel. Field Methods, 27(4), 391-408. DOI: 10.1177/1525822X15574494 URL: www.uni-mannheim.de/gip. The German Internet Panel is funded by the German Research Foundation through the Collaborative Research Center 884 „Political Economy of Reforms" (SFB 884).)
C34	M	FDZ-LIfBi (2021). Codebook. NEPS Startkohorte 4 - Klasse 9. Schule und Ausbildung. Scientific Use File Version 12.0.0, S. 2949-2953. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/SC4/12-0-0/SC4_12-0-0_Codebook_de.pdf (accessed on 07.03.2023).

		Brandtstädter, J. & Renner, G. (1990). Tenacious goal pursuit and flexible goal adjustment: Explication and age-related analysis of assimilative and accommodative strategies of coping. Psychology and Aging, 5(1), S.58–67. https://doi.org/10.1037/0882-7974.5.1.58.
C35	M	FDZ-LIfBi (2021). Codebook. NEPS Startkohorte 4 - Klasse 9. Schule und Ausbildung. Scientific Use File Version 12.0.0, S. 2954-2958. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/SC4/12-0-0/SC4_12-0-0_Codebook_de.pdf (accessed on 07.03.2023). Brandtstädter, J. & Renner, G. (1990). Tenacious goal pursuit and flexible goal adjustment: Explication and age-related analysis of assimilative and accommodative strategies of coping. Psychology and Aging, 5(1), S.58–67. https://doi.org/10.1037/0882-7974.5.1.58.
C36	M	European Social Survey (ESS) (2020). ESS10 Paper Questionnaire, S. 4-5. https://www.europeansocialsurvey.org/sites/default/files/2023-06/ESS10-Paper-Questionnaire-English-Templat.pdf (accessed on 27.02.2024). FDZ-LIfBi (2023). Codebook. NEPS Startkohorte 5 - Studierende. Hochschulstudium und Übergang in den Beruf. Scientific Use File Version 18.0.0, S. 950-951. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/SC5/18-0-0/SC5_18-0-0_Codebook_de.pdf (accessed on 15.06.2023).
D01	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Fragebogen zu Welle 2 der bundesweiten Promoviertenbefragung. FDZ-DZHW, S. 11. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins2$-4.0.0/attachments/phd2014_W2_Questionnaire_de.pdf (accessed on 20.06.2023).
D02	O	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Fragebogen zu Welle 2 der bundesweiten Promoviertenbefragung. FDZ-DZHW, S. 13. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins2$-4.0.0/attachments/phd2014_W2_Questionnaire_de.pdf (accessed on 20.06.2023).
D03	O	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2019). 21. Sozialerhebung. Fragebogen-Screenshots zu der Erhebung der wirtschaftlichen und sozialen Lage der Studierenden 2016: Deutsche und Bildungsinländer(innen). FDZ-DZHW, S. 135. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-ssy21-ins1$-2.0.0/attachments/ssy21_bi_Questionnaire_de.pdf (accessed on 06.06.2023).
D04	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2019). 21. Sozialerhebung. Fragebogen-Screenshots zu der Erhebung der wirtschaftlichen und sozialen Lage der Studierenden 2016: Deutsche und Bildungsinländer(innen). FDZ-DZHW, S. 135. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-ssy21-ins1$-2.0.0/attachments/ssy21_bi_Questionnaire_de.pdf (accessed on 06.06.2023).

Table 18: Wave 3: Documentation of the origin of secondarily used questions

Question number	Original (O)/ Modified (M)	Citation
X01	M	Struminskaya, B., Bosnjak, M., de Leeuw, E., Lugtig, P. & Toepoel, V. (2015). GESIS Panel Core Study Module - Panel Survey Participation Evaluation & Mode Preferences. In: GESIS (Hrsg.) (2024). GESIS Panel Study Description. Related to ZA5664 and ZA5665. Wave ka (February - April 2023). Version 51-0.0., S. 447–449. https://access.gesis.org/dbk/52787 (accessed on 11.03.2024).
A05	M	cf. question B26 in wave 1; cf. question A21 in wave 2
A07	M	cf. question B28 in wave 1; cf. question A23 in wave 2
A08	M	cf. question B29 in wave 1; cf. question A24 in wave 2
A09	M	cf. question B31 in wave 1; cf. question A25 in wave 2

A10	M	cf. question B32 in wave 1; cf. question A26 in wave 2
A11	M	cf. question B33 in wave 1; cf. question A27 in wave 2
A15	M	cf. question B38 in wave 1; cf. question A43 in wave 2
A15a	M	cf. question B01 (unten) in wave 2
A18	M	cf. question B43 in wave 1; cf. question A45 in wave 2
A19	M	cf. question B39 in wave 1; cf. question A47 in wave 2
A20	M	cf. question B44 in wave 1; cf. question A48 in wave 2
A22	M	cf. question C40 in wave 1
A27	M	cf. question C37 in wave 1
A28	M	cf. question A06 in wave 2
A29	M	cf. question B19 in wave 1; cf. question A07 in wave 2
A30	M	cf. question B20 in wave 1; cf. question A08 in wave 2
A40	M	cf. question B18 in wave 1; cf. question A34 in wave 2
A42	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Fragebogen zu Welle 2 der bundesweiten Promoviertenbefragung. FDZ-DZHW, S. 20. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins2$-4.0.0/attachments/phd2014_W2_Questionnaire_de.pdf (accessed on 20.06.2023).
A43	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 7. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023).
A45	O	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 7. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023).
A46	O	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 7. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023).
A47	O	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 2. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023).
A48	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). DZHW-Promoviertenpanel 2014. Fragebogen 3. Befragungswelle. FDZ-DZHW, S. 50. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins3$-4.0.0/attachments/phd2014_W3_Questionnaire_de.pdf (accessed on 27.02.2024).
A49	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 8. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023).
A50	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 8. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023).
A51	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Wissenschaftsbefragung 2019. FDZ-DZHW, S. 33. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-scs2019-ins1$-2.0.0/attachments/scs2019_Questionnaire_de.pdf (accessed on 13.03.2024).
A52	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2022). DZHW-Wissenschaftsbefragung 2019. FDZ-DZHW, S. 33. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-scs2019-ins1$-2.0.0/attachments/scs2019_Questionnaire_de.pdf (accessed on 13.03.2024).

A53	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Fragebogen zu Welle 2 der bundesweiten Promoviertenbefragung. FDZ-DZHW, S. 43. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins2$-4.0.0/attachments/phd2014_W2_Questionnaire_de.pdf (accessed on 20.06.2023).
A54	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Fragebogen zu Welle 2 der bundesweiten Promoviertenbefragung. FDZ-DZHW, S. 43. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins2$-4.0.0/attachments/phd2014_W2_Questionnaire_de.pdf (accessed on 20.06.2023).
A55	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Fragebogen zu Welle 2 der bundesweiten Promoviertenbefragung. FDZ-DZHW, S. 46. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins2$-4.0.0/attachments/phd2014_W2_Questionnaire_de.pdf (accessed on 20.06.2023).
A56	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). DZHW-Promoviertenpanel 2014. Fragebogen 3. Befragungswelle. FDZ-DZHW, S. 50. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins3$-4.0.0/attachments/phd2014_W3_Questionnaire_de.pdf (accessed on 27.02.2024).
A57	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). DZHW-Promoviertenpanel 2014. Fragebogen 3. Befragungswelle. FDZ-DZHW, S. 54. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins3$-4.0.0/attachments/phd2014_W3_Questionnaire_de.pdf (accessed on 27.02.2024).
A58	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). Karrieren Promovierter. Bundesweite Befragung zu den Promotionsbedingungen und zur beruflichen Entwicklung der Promovierten des Prüfungsjahrgangs 2013/2014. FDZ-DZHW, S. 9. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins1$-4.0.0/attachments/phd2014_W1_Questionnaire_de.pdf (accessed on 14.06.2023).
A61	M	cf. question C48 in wave 1
B01	M	cf. question B01 (oben) in wave 2
B02	M	cf. question B04 in wave 2
B03	M	cf. question B05 in wave 2
B04	M	cf. question B43 in wave 1; cf. question B07 in wave 2
B06	M	cf. question B42 in wave 2
B07	M	Deutsches Zentrum für Hochschul- und Wissenschaftsforschung (2020). DZHW-Promoviertenpanel 2014. Fragebogen 3. Befragungswelle. FDZ-DZHW, S. 19. https://metadata.fdz.dzhw.eu/public/files/instruments/ins-phd2014-ins3$-4.0.0/attachments/phd2014_W3_Questionnaire_de.pdf (accessed on 27.02.2024).
B09	M	cf. question C05/C15/C25 in wave 1; cf. question B21 in wave 2
B13	M	cf. question C04/C14/C24 in wave 1; cf. question B12 in wave 2
B15	M	cf. question C06/C16/C26 in wave 1; cf. question B14 in wave 2
B16	M	cf. question C07/C17/C27 in wave 1; cf. question B15 in wave 2
B17	M	cf. question B23 in wave 2
B18	M	cf. question B24 in wave 2
B20	M	cf. question B26 in wave 2
B22	M	cf. question B27 in wave 2
B23	M	cf. question B36 in wave 2
B28	M	cf. question B43 in wave 2
B29	M	cf. question B44 in wave 2
B30	M	cf. question B45 in wave 2
B31	M	cf. question B46 in wave 2
B32	M	cf. question B47 in wave 2
B33	M	cf. question B48 in wave 2
B38	M	cf. question B52 in wave 2
B39	M	cf. question C11/C21/C31/C32/C33 in wave 1; cf. question B19 in wave 2
C01	M	cf. question D01 in wave 1; cf. question C01 in wave 2
C02	M	cf. question D02 in wave 1; cf. question C02 in wave 2
C03	M	cf. question D03 in wave 1; cf. question C03 in wave 2
C06	M	cf. question D09/D10 in wave 1; cf. question C06 in wave 2
C07	M	cf. question D11 in wave 1; cf. question C07 in wave 2
C08	M	cf. question D12 in wave 1; cf. question C08 in wave 2

C10	M	cf. question D13 in wave 1; cf. question C09 in wave 2
C12	M	cf. question D15 in wave 1; cf. question C11 in wave 2
C13	M	cf. question D16 in wave 1; cf. question C12 in wave 2
C14	M	cf. question D17 in wave 1; cf. question C13 in wave 2
C15	M	cf. question B29/C18 in wave 2
C18	M	cf. question D26a in wave 1; cf. question C14 in wave 2
C19	M	cf. question D41 in wave 1; cf. question C15 in wave 2
C20	M	cf. question C34 in wave 2
C21	M	cf. question C35 in wave 2
C22	M	cf. question D28 in wave 1; cf. question C16 in wave 2
C23	M	cf. question D29 in wave 1; cf. question C17 in wave 2
C26	M	cf. question D34 in wave 1; cf. question C21 in wave 2
C30	M	cf. question D38 in wave 1; cf. question C27 in wave 2
C31	M	cf. question D39 in wave 1; cf. question C28 in wave 2
D02	M	Ziegler, R., Fischer, L., Ambrasat, J., Fabian, G., Niemann, P. & Buz, C. (2021). Wissenschaftskommunikation in Deutschland. Ergebnisse einer Befragung unter Wissenschaftler:innen. Berlin/Karlsruhe: DZHW, WiD, NaWik, S. 8. https://impactunit.de/wp-content/uploads/2021/08/Ergebnisbroschuere_Wisskomm_in_DE.pdf (accessed on 13.03.2024)
D03	M	Ziegler, R., Fischer, L., Ambrasat, J., Fabian, G., Niemann, P. & Buz, C. (2021). Wissenschaftskommunikation in Deutschland. Ergebnisse einer Befragung unter Wissenschaftler:innen. Berlin/Karlsruhe: DZHW, WiD, NaWik, S. 12. https://impactunit.de/wp-content/uploads/2021/08/Ergebnisbroschuere_Wisskomm_in_DE.pdf (accessed on 13.03.2024)
D04	M	Ziegler, R., Fischer, L., Ambrasat, J., Fabian, G., Niemann, P. & Buz, C. (2021). Wissenschaftskommunikation in Deutschland. Ergebnisse einer Befragung unter Wissenschaftler:innen. Berlin/Karlsruhe: DZHW, WiD, NaWik, S. 30, 34, 38, 48, 64. https://impactunit.de/wp-content/uploads/2021/08/Ergebnisbroschuere_Wisskomm_in_DE.pdf (accessed on 13.03.2024). Könneker, C., Niemann, P. & Böhmert, C. (2018). Weniger Wertschätzung, weniger Engagement. Zur Situation der Wissenschaftskommunikation in Deutschland. Forschung & Lehre 10/18, S. 870-872. https://www.wissenschaftsmanagement-online.de/system/files/downloads-wimoarticle/1810_WIMO_Weniger%20Wertsch%C3%A4tzung_weniger%20Engagement.pdf (S. 871-872) (accessed on 13.03.2024).
D05	M	Ziegler, R., Fischer, L., Ambrasat, J., Fabian, G., Niemann, P. & Buz, C. (2021). Wissenschaftskommunikation in Deutschland. Ergebnisse einer Befragung unter Wissenschaftler:innen. Berlin/Karlsruhe: DZHW, WiD, NaWik, S. 30, 34, 38, 48, 64. https://impactunit.de/wp-content/uploads/2021/08/Ergebnisbroschuere_Wisskomm_in_DE.pdf (accessed on 13.03.2024). Könneker, C., Niemann, P. & Böhmert, C. (2018). Weniger Wertschätzung, weniger Engagement. Zur Situation der Wissenschaftskommunikation in Deutschland. Forschung & Lehre 10/18, S. 870-872. https://www.wissenschaftsmanagement-online.de/system/files/downloads-wimoarticle/1810_WIMO_Weniger%20Wertsch%C3%A4tzung_weniger%20Engagement.pdf (S. 871-872) (accessed on 13.03.2024).

Table 19: Wave 4: Documentation of the origin of secondarily used questions

Question number	Original (O)/ Modified (M)	Citation
A05	M	cf. question B26 in wave 1; cf. question A21 in wave 2; cf. question A05 in wave 3
A07	M	cf. question B28 in wave 1; cf. question A23 in wave 2; cf. question A07 in wave 3
A08	M	cf. question B29 in wave 1; cf. question A24 in wave 2; cf. question A08 in wave 3

A09	M	cf. question B31 in wave 1; cf. question A25 in wave 2; cf. question A09 in wave 3
A10	M	cf. question B32 in wave 1; cf. question A26 in wave 2; cf. question A10 in wave 3
A11	M	cf. question B33 in wave 1; cf. question A27 in wave 2; cf. question A11 in wave 3
A13	M	cf. question B06 in wave 1
A14	M	cf. question B07 in wave 1
A18	M	cf. question B38 in wave 1; cf. question A43 in wave 2; cf. question A15 in wave 3
A18a	M	cf. question B01 (unten) in wave 2; cf. question A15a in wave 3
A21	M	cf. question B43 in wave 1; cf. question A45 in wave 2; cf. question A18 in wave 3
A22	M	cf. question B44 in wave 1; cf. question A48 in wave 2; cf. question A20 in wave 3
A24	M	cf. question C40 in wave 1; cf. question A22 in wave 3
A27	M	cf. question C37 in wave 1; cf. question A27 in wave 3
A28	M	cf. question A06 in wave 2; cf. question A28 in wave 3
A29	M	cf. question B19 in wave 1; cf. question A07 in wave 2; cf. question A29 in wave 3
A30	M	cf. question B20 in wave 1; cf. question A08 in wave 2; cf. question A30 in wave 3
A40	M	cf. question B18 in wave 1; cf. question A34 in wave 2; cf. question A40 in wave 3
A42	M	cf. question A42 in wave 3
A43	M	cf. question A43 in wave 3
A45	O	cf. question A45 in wave 3
A46	O	cf. question A46 in wave 3
A47	O	cf. question A47 in wave 3
A48	M	cf. question A48 in wave 3
A49	M	cf. question A49 in wave 3
A50	M	cf. question A50 in wave 3
A51	M	cf. question A51 in wave 3
A52	M	cf. question A52 in wave 3
A53	M	cf. question A53 in wave 3
A54	M	cf. question A54 in wave 3
A55	M	cf. question A55 in wave 3
A56	M	cf. question A56 in wave 3
A57	M	cf. question A57 in wave 3
A58	M	cf. question A58 in wave 3
A61	M	cf. question C48 in wave 1; cf. question A61 in wave 3
B01	M	cf. question B01 (oben) in wave 2; cf. question B01 in wave 3
B02	M	cf. question B04 in wave 2; cf. question B02 in wave 3
B03	M	cf. question B05 in wave 2; cf. question B03 in wave 3
B04	M	cf. question B43 in wave 1; cf. question B07 in wave 2; cf. question B04 in wave 3
B06	M	cf. question B42 in wave 2; cf. question B06 in wave 3
B07	M	cf. question B07 in wave 3
B09	M	cf. question C05/C15/C25 in wave 1; cf. question B21 in wave 2; cf. question B09 in wave 3
B13	M	cf. question C04/C14/C24 in wave 1; cf. question B12 in wave 2; cf. question B13 in wave 3
B15	M	cf. question C06/C16/C26 in wave 1; cf. question B14 in wave 2; cf. question B15 in wave 3
B16	M	cf. question C07/C17/C27 in wave 1; cf. question B15 in wave 2; cf. question B16 in wave 3
B17	M	cf. question B23 in wave 2; cf. question B17 in wave 3
B18	M	cf. question B24 in wave 2; cf. question B18 in wave 3
B20	M	cf. question B26 in wave 2; cf. question B20 in wave 3
B22	M	cf. question B27 in wave 2; cf. question B22 in wave 3
B23	M	cf. question B36 in wave 2; cf. question B23 in wave 3
B28	M	cf. question B43 in wave 2; cf. question B28 in wave 3
B29	M	cf. question B44 in wave 2; cf. question B29 in wave 3
B30	M	cf. question B45 in wave 2; cf. question B30 in wave 3
B31	M	cf. question B46 in wave 2; cf. question B31 in wave 3
B32	M	cf. question B47 in wave 2; cf. question B32 in wave 3
B33	M	cf. question B48 in wave 2; cf. question B33 in wave 3
B38	M	cf. question B52 in wave 2; cf. question B38 in wave 3

B39	M	cf. question C11/C21/C31/C32/C33 in wave 1; cf. question B19 in wave 2; cf. question B39 in wave 3
C01	M	cf. question D01 in wave 1; cf. question C01 in wave 2; cf. question C01 in wave 3
C02	M	cf. question D02 in wave 1; cf. question C02 in wave 2; cf. question C02 in wave 3
C03	M	cf. question D03 in wave 1; cf. question C03 in wave 2; cf. question C03 in wave 3
C06	M	cf. question D09/D10 in wave 1; cf. question C06 in wave 2; cf. question C06 in wave 3
C07	M	cf. question D12 in wave 1; cf. question C08 in wave 2; cf. question C08 in wave 3
C08	M	cf. question D13 in wave 1; cf. question C09 in wave 2; cf. question C10 in wave 3
C10	M	cf. question D15 in wave 1; cf. question C11 in wave 2; cf. question C12 in wave 3
C11	M	cf. question D16 in wave 1; cf. question C12 in wave 2; cf. question C13 in wave 3
C12	M	cf. question D17 in wave 1; cf. question C13 in wave 2; cf. question C14 in wave 3
C13/C13a/ C13b	M	cf. question C22 in wave 2
C14	M	cf. question C23 in wave 2
C15	M	cf. question B29/C18 in wave 2; cf. question C15 in wave 3
C18	M	cf. question D26a in wave 1; cf. question C14 in wave 2; cf. question C18 in wave 3
C19	M	cf. question D41 in wave 1; cf. question C15 in wave 2; cf. question C19 in wave 3
C20	M	cf. question C34 in wave 2; cf. question C20 in wave 3
C21	M	cf. question C35 in wave 2; cf. question C21 in wave 3
C22	M	cf. question D28 in wave 1; cf. question C16 in wave 2; cf. question C22 in wave 3
C23	M	cf. question D29 in wave 1; cf. question C17 in wave 2; cf. question C23 in wave 3
C26	M	cf. question D34 in wave 1; cf. question C21 in wave 2; cf. question C26 in wave 3
C30	M	cf. question D38 in wave 1; cf. question C27 in wave 2; cf. question C30 in wave 3
C31	M	cf. question D39 in wave 1; cf. question C28 in wave 2; cf. question C31 in wave 3
D01	M	FDZ-LIfBi (2020). Startkohorten 2-6. NEPS Corona und Bildung. Zusatzerhebung Mai 2020. Programmiervorlage CAWI, S. 15. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/NEPS-C/NEPS-C_Q.zip (accessed on 11.03.2024).
D02	M	FDZ-LIfBi (2020). Startkohorten 2-6. NEPS Corona und Bildung. Zusatzerhebung Mai 2020. Programmiervorlage CAWI, S. 15. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/NEPS-C/NEPS-C_Q.zip (accessed on 11.03.2024).
D03	M	Delgado-Osorio, X., Gierke, M., Jaen, J., Kansiime, J., Lonken, D., Pérez-Bosch Quesada, E., Ramachandran, K., Rizzi, T. & Saxena, P. (2023). Being a Doctoral Researcher in the Leibniz Association: 2021 Leibniz PhD Network Survey Report, S. 141. https://nbnresolving.org/urn:nbn:de:0168-ssoar-89848-5 (accessed on 11.03.2023). (The Nacaps team would also like to thank its colleagues from the network of doctoral student networks N2.)
D04	M	Delgado-Osorio, X., Gierke, M., Jaen, J., Kansiime, J., Lonken, D., Pérez-Bosch Quesada, E., Ramachandran, K., Rizzi, T. & Saxena, P. (2023). Being a Doctoral Researcher in the Leibniz Association: 2021 Leibniz PhD Network Survey Report, S. 139. https://nbnresolving.org/urn:nbn:de:0168-ssoar-89848-5 (accessed on 11.03.2023). (The Nacaps team would also like to thank its colleagues from the network of doctoral student networks N2.)
D05	M	FDZ-LIfBi (2020). Startkohorten 2-6. NEPS Corona und Bildung. Zusatzerhebung Mai 2020. Programmiervorlage CAWI, S. 62-64. https://www.neps-data.de/Portals/0/NEPS/Datenzentrum/Forschungsdaten/NEPS-C/NEPS-C_Q.zip (accessed on 11.03.2024).

10.2 Generated variables

Table 20:   Overview of the generated variables and the procedure for their generation

generated variable	variable label	generation procedure
pid	Identification number (randomised)	randomised numbering of cases
adbi02a_g1	Date of start working on the content of doctorate: month (aggregated)	Recoding of the month of the date of start working on the content of doctorate (adbi02a) to quarter resp. to "anonymized"-missing (-967) if before the year 2005
adbi02b_g1	Date of start working on the content of doctorate: year (aggregated)	Recoding of the year of the date of start working on the content of doctorate (adbi02b) to the category "before 2005", if before the year 2005
adbi04a_g1	Date of admission to doctorate (month) (aggregated)	Recoding of the month of the date of admission to doctorate (adbi04a) to quarter resp. to "anonymized"-missing (-967) if before the year 2005
adbi04b_g1	Date of admission to doctorate (year) (aggregated)	Recoding of the year of the date of admission to doctorate (adbi04b) to the category "before 2005", if before the year 2005
adbi10a_g1	University of doctorate (Destatis key)	Coding of the open response on the university of doctorate (adbi10a; variable not included in the published data) to university according to the Destatis key list of student and examination statistics, doctoral candidates statistics WS 2018/2019 and SS 2019 (in some cases, codes were used that are only contained in key 2.3 as obsolete code, but not in key 2.2 because there were changes, e.g. consolidations, splits or dissolutions of university locations.) For universities with several locations, the information on the location of the university (adbi10b; variable not included in the published data) was used.
adbi13_g1	University of applied sciences involved in the doctoral procedure	Recoding of the information on the involvement of a UAS in the doctoral procedure (adbi13; variable not included in the published data) to the category "yes" if the categories "yes, a university of applied sciences" or "yes, an administrative university" were selected, which were only displayed for persons from a specific university (not documented in the published questionnaire)
adbi15_g0	Doctoral subject/discipline: subject (destatis)	Coding of the open response on the doctoral subject/discipline (adbi15; variable not included in the published data) to doctoral subject/discipline according to the Destatis subject classification WS 2017/2018 (if more than one subject was specified, the first subject was coded) (Note: The coding to subjects/disciplines was done separately from the coding to areas of study, see adbi15_g1, on which the other subject aggregations are based)
adbi15_g1	Doctoral subject/discipline: area of study (destatis)	Coding of the open response on the doctoral subject/discipline (adbi15; variable not included in the published data) to area of study according to the Destatis subject classification WS 2017/2018 (if more than one subject was specified, the first subject was coded) (Note: The coding to areas of study was done separately from the coding to subjects/disciplines, see adbi15_g0)
adbi15_g2	Doctoral subject/discipline: subject group (destatis)	Recoding of the Destatis area of study of the doctoral subject/discipline (adbi15_g1) to subject group according to the Destatis subject classification WS 2017/2018 (Note: In the original subject classification, the subject groups are assigned to codes 1-5 resp. 7-9, i.e. without code 6. Here, however, codes 1-8 have been assigned.)
adbi15_g3	Doctoral subject/discipline: subject group (DZHW)	Recoding of the Destatis area of study of the doctoral subject/discipline (adbi15_g1) to subject group according to a reference list of Destatis areas of study to a project-specific subject group classification
adsv07a_g1	Formal supervision status of supervisor(s): supervisor 1 (agg.)	Recoding of the formal supervision status of supervisor 1 (adsv07a) to the category "official supervisor" if "first supervisor/first reviewer", "second supervisor/second reviewer" or "other official supervisor/reviewer"
adsv07b_g1	Formal supervision status of supervisor(s): supervisor 2 (agg.)	Recoding of the formal supervision status of supervisor 2 (adsv07b) to the category "official supervisor" if "first supervisor/first reviewer", "second supervisor/second reviewer" or "other official supervisor/reviewer"

adsv07c_g1	Formal supervision status of supervisor(s): supervisor 3 (agg.)	Recoding of the formal supervision status of supervisor 3 (adsv07c) to the category "official supervisor" if "first supervisor/first reviewer", "second supervisor/second reviewer" or "other official supervisor/reviewer"
afin03a_g1	Scholarship provider (aggregated)	Recoding of the scholarship provider (afin03a) to the categories: - "German Research Foundation(DFG)/foundations" if "German Research Foundation (DFG)", "Studienstiftung des deutschen Volkes - German Academic Scholarship Foundation","Friedrich Ebert Foundation", „Friedrich Naumann Foundation","Hanns Seidel Foundation","Hans Böckler Foundation","Heinrich Böll Foundation","Konrad Adenauer Foundation","Rosa Luxemburg Foundation" or "Foundation of German Business" - "Uni/Uni of applied sciences/non-university research institution/other" if "university","university of applied sciences","non-university research institution" or "other, namely"
adcd21_g1	Ideal doctorate fundings: DFG/foundations	Aggregation of the single items regarding ideal doctorate fundings (adcd21a-adcd21j) to the categories: - "no" if not "yes" for any of the single items - "yes" if "yes" for one of the single items
adcd21_g2	Ideal doctorate fundings: Uni/UAS/non-univ. research institution/other	Aggregation of the single items regarding ideal doctorate fundings (adcd21k-adcd21n) to the categories: - "no" if not "yes" for any of the single items - "yes" if "yes" for one of the single items
aemp05a_g1	Univ./res. inst.: start of current contract: month (agg.)	Recoding of the month of start of current contract (aemp05a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
aemp21a_g1	Outside univ./res. inst.: start of current contract: month (agg.)	Recoding of the month of start of current contract (aemp21a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
aemp37a_g1	Other employment: start of current contract: month (agg.)	Recoding of the month of start of current contract (aemp37a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
aabr03_g1	Stay abroad country no. 1	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g2	Stay abroad country no. 2	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g3	Stay abroad country no. 3	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g4	Stay abroad country no. 4	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)

aabr03_g5	Stay abroad country no. 5	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g6	Stay abroad country no. 6	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g7	Stay abroad country no. 7	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g8	Stay abroad country no. 8	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g9	Stay abroad country no. 9	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g10	Stay abroad country no. 10	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g11	Stay abroad country no. 11	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g12	Stay abroad country no. 12	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g13	Stay abroad country no. 13	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g14	Stay abroad country no. 14	Coding of the open response on country of stay abroad (aabr03; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aabr03_g15	Stay abroad: Europe	Aggregation of the single information on countries of stay abroad (aabr03_g1-aabr03_g14) to the categories: - "not stated" if no country in Europe is stated - "stated" if country in Europe is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
aabr03_g16	Stay abroad: Africa	Aggregation of the single information on countries of stay abroad (aabr03_g1-aabr03_g14) to the categories: - "not stated" if no country in Africa is stated - "stated" if country in Africa is stated

		according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
aabr03_g17	Stay abroad: America	Aggregation of the single information on countries of stay abroad (aabr03_g1-aabr03_g14) to the categories: - "not stated" if no country in America is stated - "stated" if country in America is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
aabr03_g18	Stay abroad: Asia	Aggregation of the single information on countries of stay abroad (aabr03_g1-aabr03_g14) to the categories: - "not stated" if no country in Asia is stated - "stated" if country in Asia is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
aabr03_g19	Stay abroad: Australia, Oceania, Antarctic	Aggregation of the single information on countries of stay abroad (aabr03_g1-aabr03_g14) to the categories: - "not stated" if no country in Australia/Oceania/Antarctic is stated - "stated" if country in Australia/Oceania/Antarctic is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
alcd07_g1	Number of children (aggregated)	Recoding of number of children (alcd07) to category "5 or more", if more than 4 children
alcd08_g1	Age of the youngest child in the year of the survey	Aggregation of the single information on years of birth of children: (alcd08a bis alcd08j) to the categories: - "younger than 3 years", if youngest child younger than 3 years in the year of the survey - "3-5 years", if youngest child between 3 and 5 years old in the year of the survey - "6-15 years", if youngest child between 6 and 15 years old in the year of the survey - "16 years and older", if youngest child at least 16 years old in the year of the survey (calculation based on years, therefore not accurate to month or day)
ahea08_g1	Current degree of disability (aggregated)	Recoding of degree of disability to categories: - "up to 49 (no severe disability)" - "50 or more (severe disability)"
adem01_g1	Gender (aggregated)	Recoding of gender (adem01) to "not determinable"-missing (-966), if "diverse" or "no answer"
adem02_g1	Year of birth (aggregated, 29 categories)	Recoding of year of birth (adem02) to categories: - "till 1959" - "1960-1964" - "1965-1969" - "1995 or younger" (1970-1994 still shown separately)
adem02_g2	Year of birth (aggregated, 9 categories)	Recoding of year of birth (adem02) to categories: - "till 1969" - "1970-1979" - "1980-1984" - "1985-1986" - "1987-1988" - "1989-1990" - "1991-1992" - "1993-1994" - "1995 or younger"
adem04_g1	Country of birth	Coding of the open response on country of birth (adem04; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
adem04_g2	Country of birth (NEPS-regions)	Recoding of country of birth (adem04_g1) to NEPS-region according to NEPS-recoding map of countries (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
adem04_g3	Country of birth (world regions)	Recoding of country of birth (adem04_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
adem05a_g1	Country of residence on 30 June 1990 (FRG/GDR/other country)	Recoding of information on country of residence on 30 June 1990 (adem05a; variable not included in the published data), to the category "in the FRG" resp. "in the GDR" if „in another country" was selected and at the same time FRG/West Berlin resp. GDR was

		mentioned as open response (adem05b; variable not included in the published data)
adem05b_g1	Country of residence on 30 June 1990	Coding of the open response on country of residence on 30 June 1990 (adem05b; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
adem05b_g2	Country of residence on 30 June 1990 (NEPS-regions)	Recoding of country of residence on 30 June 1990 (adem05b_g1) to NEPS-region according to NEPS-recoding map of countries (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
adem05b_g3	Country of residence on 30 June 1990 (world regions)	Recoding of country of residence on 30 June 1990 (adem05b_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
adem06_g1	Year of immigration to Germany (aggregated)	Recoding of year of immigration to Germany (adem06) to categories: - "till 1989" - "1990-1999" - "2000-2009" - "from 2010"
adem07a_g1	Citizenship (German citizenship)	Recoding of information whether German citizenship exists (adem07a; variable not included in the published data), to the category "yes" if category "no" was selected and at the same time the German citizenship was mentioned as open response (adem10; variable not included in the published data)
adem09_g1	German citizenship since (year) (aggregated)	Recoding of year of attainment of German citizenship (adem09) to categories: - "till 1989" - "1990-1999" - "2000-2009" - "from 2010"
adem10_g1	1st citizenship	Coding of the open response on citizenship (adem10; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
adem10_g4	1st citizenship (NEPS-regions)	Recoding of first citizenship (adem10_g1) to NEPS-region according to NEPS-recoding map of countries
adem10_g2	2nd citizenship	Coding of the open response on citizenship (adem10; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
adem10_g5	2nd citizenship (NEPS-regions)	Recoding of second citizenship (adem10_g2) to NEPS-region according to NEPS-recoding map of countries
adem10_g3	3rd citizenship	Coding of the open response on citizenship (adem10; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
adem10_g6	3rd citizenship (NEPS-regions)	Recoding of third citizenship (adem10_g3) to NEPS-region according to NEPS-recoding map of countries
adem10_g7	Citizenship: Europe	Aggregation of the single information on citizenship (adem10_g1-adem10_g3) to the categories: - "not stated" if no citizenship for country in Europe is stated - "stated" if citizenship for country in Europe is stated according to Destatis classification of states and territories (04/01/2019)
adem10_g8	Citizenship: Africa	Aggregation of the single information on citizenship (adem10_g1-adem10_g3) to the categories: - "not stated" if no citizenship for country in Africa is stated - "stated" if citizenship for country in Africa is stated according to Destatis classification of states and territories (04/01/2019)
adem10_g9	Citizenship: America	Aggregation of the single information on citizenship (adem10_g1-adem10_g3) to the categories: - "not stated" if no citizenship for country in America is stated - "stated" if citizenship for country in America is stated according to Destatis classification of states and territories (04/01/2019)
adem10_g10	Citizenship: Asia	Aggregation of the single information on citizenship (adem10_g1-adem10_g3) to the categories: - "not stated" if no citizenship for country in Asia is stated - "stated" if citizenship for country in Asia is stated

		according to Destatis classification of states and territories (04/01/2019)
adem10_g11	Citizenship: Australia, Oceania, Antarctic	Aggregation of the single information on citizenship (adem10_g1-adem10_g3) to the categories: - "not stated" if no citizenship for country in Australia/Oceania/Antarctic is stated - "stated" if citizenship for country in Australia/Oceania/Antarctic is stated according to Destatis classification of states and territories (04/01/2019)
apar01a_g1	Country of birth of parents: father (Germany/other country)	Recoding of information whether the father was born in Germany or in another country (apar01a; variable not included in the published data), to the category "in Germany" if „in another country" was selected and at the same time FRG/West Berlin resp. GDR was mentioned as open response (apar02a; variable not included in the published data)
apar02a_g1	Country of birth of parents: father	Coding of the open response on country of birth of father (apar02a; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
apar02a_g2	Country of birth of parents: father (NEPS-regions)	Recoding of country of birth of father (apar02a_g1) to NEPS-region according to NEPS-recoding map of countries (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
apar02a_g3	Country of birth of parents: father (world regions)	Recoding of country of birth of father (apar02a_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
apar02b_g1	Country of birth of parents: mother	Coding of the open response on country of birth of mother (apar02b; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
apar02b_g2	Country of birth of parents: mother (NEPS-regions)	Recoding of country of birth of mother (apar02b_g1) to NEPS-region according to NEPS-recoding map of countries (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
apar02b_g3	Country of birth of parents: mother (world regions)	Recoding of country of birth of mother (apar02b_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
apar04aa_g1	Citizenship(s) of parents: father (German citizenship)	Recoding of information whether the father has German citizenship (apar04aa; variable not included in the published data), to the category "yes" if category "no" was selected and at the same time the German citizenship was mentioned as open response (apar05a; variable not included in the published data)
apar05a_g1	1st citizenship father	Coding of the open response on citizenship of father (apar05a; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
apar05a_g4	1st citizenship father (NEPS-regions)	Recoding of first citizenship of father (apar05a_g1) to NEPS-region according to NEPS-recoding map of countries
apar05a_g2	2nd citizenship father	Coding of the open response on citizenship of father (apar05a; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
apar05a_g5	2nd citizenship father (NEPS-regions)	Recoding of second citizenship of father (apar05a_g2) to NEPS-region according to NEPS-recoding map of countries
apar05a_g3	3rd citizenship father	Coding of the open response on citizenship of father (apar05a; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
apar05a_g6	3rd citizenship father (NEPS-regions)	Recoding of third citizenship of father (apar05a_g3) to NEPS-region according to NEPS-recoding map of countries
apar05a_g7	Citizenship father: Europe	Aggregation of the single information on citizenship of father (apar05a_g1-apar05a_g3) to the categories: - "not stated" if no citizenship for country in Europe is stated - "stated" if citizenship for country in Europe is stated according to Destatis classification of states and territories (04/01/2019)

apar05a_g8	Citizenship father: Africa	Aggregation of the single information on citizenship of father (apar05a_g1-apar05a_g3) to the categories: - "not stated" if no citizenship for country in Africa is stated - "stated" if citizenship for country in Africa is stated according to Destatis classification of states and territories (04/01/2019)
apar05a_g9	Citizenship father: America	Aggregation of the single information on citizenship of father (apar05a_g1-apar05a_g3) to the categories: - "not stated" if no citizenship for country in America is stated - "stated" if citizenship for country in America is stated according to Destatis classification of states and territories (04/01/2019)
apar05a_g10	Citizenship father: Asia	Aggregation of the single information on citizenship of father (apar05a_g1-apar05a_g3) to the categories: - "not stated" if no citizenship for country in Asia is stated - "stated" if citizenship for country in Asia is stated according to Destatis classification of states and territories (04/01/2019)
apar05a_g11	Citizenship father: Australia, Oceania, Antarctic	Aggregation of the single information on citizenship of father (apar05a_g1-apar05a_g3) to the categories: - "not stated" if no citizenship for country in Australia/Oceania/Antarctic is stated - "stated" if citizenship for country in Australia/Oceania/Antarctic is stated according to Destatis classification of states and territories (04/01/2019)
apar04ba_g1	Citizenship(s) of parents: mother (German citizenship)	Recoding of information whether the mother has German citizenship (apar04ba; variable not included in the published data), to the category "yes" if category "no" was selected and at the same time the German citizenship was mentioned as open response (apar05b; variable not included in the published data)
apar05b_g1	1st citizenship mother	Coding of the open response on citizenship of mother (apar05b; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
apar05b_g4	1st citizenship mother (NEPS-regions)	Recoding of first citizenship of mother (apar05b_g1) to NEPS-region according to NEPS-recoding map of countries
apar05b_g2	2nd citizenship mother	Coding of the open response on citizenship of mother (apar05b; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
apar05b_g5	2nd citizenship mother (NEPS-regions)	Recoding of second citizenship of mother (apar05b_g2) to NEPS-region according to NEPS-recoding map of countries
apar05b_g3	3rd citizenship mother	Coding of the open response on citizenship of mother (apar05b; variable not included in the published data) to citizenship according to Destatis classification of states and territories (04/01/2019)
apar05b_g6	3rd citizenship mother (NEPS-regions)	Recoding of third citizenship of mother (apar05b_g3) to NEPS-region according to NEPS-recoding map of countries
apar05b_g7	Citizenship mother: Europe	Aggregation of the single information on citizenship of mother (apar05b_g1-apar05b_g3) to the categories: - "not stated" if no citizenship for country in Europe is stated - "stated" if citizenship for country in Europe is stated according to Destatis classification of states and territories (04/01/2019)
apar05b_g8	Citizenship mother: Africa	Aggregation of the single information on citizenship of mother (apar05b_g1-apar05b_g3) to the categories: - "not stated" if no citizenship for country in Africa is stated - "stated" if citizenship for country in Africa is stated according to Destatis classification of states and territories (04/01/2019)
apar05b_g9	Citizenship mother: America	Aggregation of the single information on citizenship of mother (apar05b_g1-apar05b_g3) to the categories: - "not stated" if no citizenship for country in America is stated - "stated" if citizenship for country in America is stated according to Destatis classification of states and territories (04/01/2019)
apar05b_g10	Citizenship mother: Asia	Aggregation of the single information on citizenship of mother (apar05b_g1-apar05b_g3) to the categories: - "not stated" if no citizenship for country in Asia is stated - "stated" if citizenship for country in Asia is stated according to Destatis classification of states and territories (04/01/2019)

apar05b_g11	Citizenship mother: Australia, Oceania, Antarctic	Aggregation of the single information on citizenship of mother (apar05b_g1-apar05b_g3) to the categories: - "not stated" if no citizenship for country in Australia/Oceania/Antarctic is stated - "stated" if citizenship for country in Australia/Oceania/Antarctic is stated according to Destatis classification of states and territories (04/01/2019)
apar06a_g1	Country of residence of parents on 30 June 1990: father (FRG/GDR/other c.)	Recoding of information on country of residence of father on 30 June 1990 (apar06a; variable not included in the published data), to the category "in the FRG" resp. "in the GDR" if "in another country" was selected and at the same time FRG/West Berlin resp. GDR was mentioned as open response (apar07a; variable not included in the published data)
apar07a_g1	Country of residence of parents on 30 June 1990: father	Coding of the open response on country of residence of father on 30 June 1990 (apar07a; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
apar07a_g2	Country of residence of parents on 30 June 1990: father (NEPS-regions)	Recoding of country of residence of father on 30 June 1990 (apar07a_g1) to NEPS-region according to NEPS-recoding map of countries (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
apar07a_g3	Country of residence of parents on 30 June 1990: father (world regions)	Recoding of country of residence of father on 30 June 1990 (apar07a_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
apar06b_g1	Country of residence of parents on 30 June 1990: mother (FRG/GDR/other c.)	Recoding of information on country of residence of mother on 30 June 1990 (apar06b; variable not included in the published data), to the category "in the FRG" resp. "in the GDR" if "in another country" was selected and at the same time FRG/West Berlin resp. GDR was mentioned as open response (apar07b; variable not included in the published data)
apar07b_g1	Country of residence of parents on 30 June 1990: mother	Coding of the open response on country of residence of mother on 30 June 1990 (apar07b; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
apar07b_g2	Country of residence of parents on 30 June 1990: mother (NEPS-regions)	Recoding of country of residence of mother on 30 June 1990 (apar07b_g1) to NEPS-region according to NEPS-recoding map of countries (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
apar07b_g3	Country of residence of parents on 30 June 1990: mother (world regions)	Recoding of country of residence of mother on 30 June 1990 (apar07b_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
apar08a_g1	Parents' highest school-leaving certificate: father (aggregated)	Recoding of highest school leaving certificate of father (apar08a) to categories: - "other school-leaving certificate", if "subject-linked university entrance qualification", "university of applied sciences entrance qualification", "gen. certificate of sec. education (Mittlere Reife), polytech. sec. school of GDR with 10th grade leaving certificate", "certificate of secondary education, polytechnic secondary school of the GDR with 8th/9th grade leaving certificate" or "other school-leaving qualification" - "unclassifiable" if „no leaving certificate/less than 8th grade" or "school-leaving qualification unknown" (category "general qualification for university entrance/A-levels/high school graduation (Abitur)" is retained)
apar08b_g1	Parents' highest school-leaving certificate: mother (aggregated)	Recoding of highest school leaving certificate of mother (apar08b) to categories: - "other school-leaving certificate", if "subject-linked university entrance qualification", "university of applied sciences entrance qualification", "gen. certificate of sec. education (Mittlere Reife), polytech. sec. school of GDR with 10th grade leaving certificate", "certificate of secondary education, polytechnic secondary school of the GDR with

		8th/9th grade leaving certificate" or "other school-leaving qualification" - "unclassifiable" if „no leaving certificate/less than 8th grade" or "school-leaving qualification unknown" (category "general qualification for university entrance/A-levels/high school graduation (Abitur)" is retained)
apar10a_g1	Parents' highest level of vocational training: father (aggregated)	Recoding of highest level of vocational training of father (apar10a) to categories: - "other vocational qualification", if "university degree", "university of applied sciences degree", "degree at a technical school (GDR only)", "degree at a master school/technical school/school for technicians, vocational or technical academy", "in-firm vocational training (apprenticeship)", "school-based vocational training (vocational school, business school)" or "other vocational qualification" - "unclassifiable" if „no vocational qualification" or "vocational qualification unknown" (category "PhD/doctorate" is retained)
apar10b_g1	Parents' highest level of vocational trainingt: mother (aggregated)	Recoding of highest level of vocational training of mother (apar10b) to categories: - "other vocational qualification", if "university degree", "university of applied sciences degree", "degree at a technical school (GDR only)", "degree at a master school/technical school/school for technicians, vocational or technical academy", „in-firm vocational training (apprenticeship)", "school-based vocational training (vocational school, business school)" or "other vocational qualification" - "unclassifiable" if "no vocational qualification" or "vocational qualification unknown" (category "PhD/doctorate" is retained)
apar11a_g1	Parents' professional status: father (aggregated)	Recoding of professional status of father (apar11a) to categories: - "other professional status" if "self-employed with employees", "self-employed without employees" or "civil cervant" - "I cannot classify" if "never been employed", "professional status unknown" or "I cannot classify." (categories "employee" and "worker" are retained)
apar11b_g1	Parents' professional status: mother (aggregated)	Recoding of professional status of mother (apar11b) to categories: - "other professional status" if "self-employed with employees", "self-employed without employees" or "civil cervant" - "I cannot classify" if "never been employed", "professional status unknown" or "I cannot classify." (categories "employee" and "worker" are retained)
aedb01b_g1	University entrance qualification: country 1	Coding of the open response on country of university entrance qualification (aedb01b; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aedb01b_g2	University entrance qualification: country 2	Coding of the open response on country of university entrance qualification (aedb01b; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aedb01b_g3	University entrance qualification: country 3	Coding of the open response on country of university entrance qualification (aedb01b; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aedb01b_g4	University entrance qualification: Europe	Aggregation of the single information on country of university entrance qualification (aedb01b_g1-aedb01b_g3) to the categories: - "not stated" if no country in Europe is stated - "stated" if country in Europe is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
aedb01b_g5	University entrance qualification: Africa	Aggregation of the single information on country of university entrance qualification (aedb01b_g1-aedb01b_g3) to the categories: - "not stated" if no country in Africa is stated - "stated" if country in Africa is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)

aedb01b_g6	University entrance qualification: America	Aggregation of the single information on country of university entrance qualification (aedb01b_g1-aedb01b_g3) to the categories: - "not stated" if no country in America is stated - "stated" if country in America is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
aedb01b_g7	University entrance qualification: Asia	Aggregation of the single information on country of university entrance qualification (aedb01b_g1-aedb01b_g3) to the categories: - "not stated" if no country in Asia is stated - "stated" if country in Asia is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
aedb01b_g8	University entrance qualification: Australia, Oceania, Antarctic	Aggregation of the single information on country of university entrance qualification (aedb01b_g1-aedb01b_g3) to the categories: - "not stated" if no country in Australia/Oceania/Antarctic is stated - "stated" if country in Australia/Oceania/Antarctic is stated according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible)
aedb02_g1	Year and final grade of univ. entr. qual.: Year (aggregated, 28 cat.)	Recoding of year of university entrance qualification (aedb02) to categories: - "till 1979" - "1980-1984" - "1985-1989" - "1990-1994" - "2018-2019" (1995-2017 still shown separately)
aedb02_g2	Year and final grade of univ. entr. qual.: Year (aggregated, 8 cat.)	Recoding of year of university entrance qualification (aedb02) to categories: - "till 1989" - "1990-1999" - "2000-2004" - "2005-2006" - "2007-2008" - "2009-2010" - "2011-2012" - "2013-2019"
aedb04a_g1	University degree giving access to a doctorate: area of study (destatis)	Coding of the open response on subject (aedb04a; variable not included in the published data) to area of study according to the Destatis subject classification WS 2017/2018 (if more than one subject was specified, the first subject was coded)
aedb04a_g2	University degree giving access to a doctorate: subject group (destatis)	Recoding of the Destatis area of study (aedb04a_g1) to subject group according to the Destatis subject classification WS 2017/2018 (Note: In the original subject classification, the subject groups are assigned to codes 1-5 or 7-9, i.e. without code 6. Here, however, codes 1-8 have been assigned.)
aedb04b_g1	University degree giving access to a doctorate: university (destatis)	Coding of the open response on the university (aedb04b; variable not included in the published data) to university according to the Destatis key list of student and examination statistics, doctoral candidates statistics WS 2018/2019 and SS 2019 (in some cases, codes were used that are only contained in key 2.3 as obsolete code, but not in key 2.2 because there were changes, e.g. consolidations, splits or dissolutions of university locations; codes with letters were converted into numeric codes)
aedb04b_g2	University degree giving access to a doctorate: federal state of university	Recoding of the university of university degree giving access to a doctorate (aedb04b_g1) to the federal state, according to the Destatis key list of student and examination statistics, doctoral candidates statistics WS 2018/2019 and SS 2019 (codes not included in key 2.2 have been assigned manually)
aedb04b_g5	University degree giving access to a doctorate: fed. state of university (agg.)	Recoding of federal state of university, from which the university degree is giving access to a doctorate (aedb04b_g2), to categories: - „Berlin/Brandenburg/Mecklenburg-Vorpommern" - „Lower Saxony/Bremen" - „Schleswig-Holstein/Hamburg" - „Rhineland-Palatinate/Saarland" - "Saxony/Saxony-Anhalt/Thuringia" (categories "Baden-Wuerttemberg", "Bavaria", "Hesse" and "North Rhine-Westphalia" are retained)
aedb04b_g3	University degree giving access to a doctorate: region of university	Recoding of the federal state in which the university of university degree giving access to a doctorate is located (aedb04b_g2), to the categories:

		- "North" if "Schleswig-Holstein", "Hamburg", "Lower Saxony" or "Bremen" - "South" if "Baden-Württemberg" or "Bavaria" - "East" if "Berlin", "Brandenburg", "Mecklenburg-Western Pomerania", "Saxony", "Saxony-Anhalt" or "Thuringia" - "West" if "North Rhine-Westphalia", "Hesse", "Rhineland-Palatinate" or "Saarland"
aedb04b_g4	University degree giving access to a doctorate: type of university	Coding of the open response on the university (aedb04b; variable not included in the published data) to the categories "university", "university of applied sciences (without administrative university)" and "administrative university" according to the Destatis key list of student and examination statistics, doctoral candidates statistics WS 2018/2019 and SS 2019 (universities of education, theological universities and art universities were assigned to the category "university"; codes not included in key 2.2 have been assigned manually)
aedb04b_g6	University degree giving access to a doctorate: type of university (agg.)	Recoding of type of university (aedb04b_g4) to categories "university" und "university of applied sciences"
aedb04d_g1	University degree giving access to a doctorate: country (destatis)	Coding of the open response on country of university degree giving access to a doctorate (aedb04d; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
aedb04d_g2	University degree giving access to a doctorate: country (destatis) (worldregion)	Recoding of country of university degree giving access to a doctorate (aedb04d_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
aedb04h_g1	University degree giving access to a doctorate: final year (agg., 14 cat.)	Recoding of final year (aedb04h) to categories: - "till 1989" - "1990-1994" - "1995-1999" - "2000-2004" - 22005-2009" - "2018-2019" (2010-2017 still shown separately)
aedb04h_g2	University degree giving access to a doctorate: final year (agg., 5 cat.)	Recoding of final year (aedb04h) to categories: - "till 1999" - "2000-2004" - "2005-2009" - "2010-2014" - "2015-2019"
bdbi16a_g1	Doctorate grade (aggregated, 6 cat.)	Recoding of doctorate grade (bdbi16a) to category "Satis bene (satisfactory)/Rite (pass)" if "Satis bene (satisfactory)" or "Rite (pass)"
bdbi16a_g2	Doctorate grade (aggregated, 5 cat.)	Recoding of doctorate grade (bdbi16a) to category "other" if "Satis bene (satisfactory)", "Rite (pass)" or "other"
bdbi10a_g1	University of doctorate (Destatis key)	Coding of the open response on the university of doctorate (bdbi10a; variable not included in the published data) to university according to the Destatis key list of student and examination statistics, doctoral candidates statistics WS 2018/2019 and SS 2019 (in some cases, codes were used that are only contained in key 2.3 as obsolete code, but not in key 2.2 because there were changes, e.g. consolidations, splits or dissolutions of university locations.) For universities with several locations, the information on the location of the university (bdbi10b; variable not included in the published data) was used.
bdbi15_g0	Doctoral subject/discipline: subject (destatis)	Coding of the open response on the doctoral subject/discipline (bdbi15; variable not included in the published data) to doctoral subject/discipline according to the Destatis subject classification WS 2017/2018 (if more than one subject was specified, the first subject was coded)
bdbi15_g1	Doctoral subject/discipline: area of study (destatis)	Recoding of doctoral subject/discipline according to Destatis (bdbi15_g0) to area of study according to the Destatis subject classification WS 2017/2018
bdbi15_g2	Doctoral subject/discipline: subject group (destatis)	Recoding of the Destatis area of study of the doctoral subject/discipline (bdbi15_g1) to subject group according to the Destatis subject classification WS 2017/2018 (Note: In the original subject classification, the subject groups are assigned to codes 1-5 resp. 7-9, i.e. without code 6. Here, however, codes 1-8 have been assigned.)

		If the Destatis area of study contained the missing "not determinable", it was tried to assign a subject group based on the open response on the doctoral subject/discipline (bdbi15; variable not included in the published data).
bdbi15_g3	Doctoral subject/discipline: subject group (DZHW)	Recoding of the Destatis area of study of the doctoral subject/discipline (bdbi15_g1) to subject group according to a reference list of Destatis areas of study to a project-specific subject group classification. If the Destatis area of study contained the missing "not determinable", it was tried to assign a subject group according to the project-specific classification based on the open response on the doctoral subject/discipline (bdbi15; variable not included in the published data).
bdsv07_g1	Formal supervision status of supervisor(s): main supervisor (agg.)	Recoding of the formal supervision status of supervisor (bdsv07) to the category "official supervisor" if "first supervisor/first reviewer", "second supervisor/second reviewer" or "other official supervisor/reviewer"
bdcd21_g1	Ideal doctorate fundings: DFG/foundations	Aggregation of the single items regarding ideal doctorate fundings (bdcd21a-bdcd21j) to the categories: - "no" if not "yes" for any of the single items - "yes" if "yes" for one of the single items
bdcd21_g2	Ideal doctorate fundings: Uni/UAS/non-univ. research institution/other	Aggregation of the single items regarding ideal doctorate fundings (bdcd21k-bdcd21n) to the categories: - "no" if not "yes" for any of the single items - "yes" if "yes" for one of the single items
bfin03a_g1	Scholarship provider (aggregated)	Recoding of the scholarship provider (bfin03a) to the categories: - "German Research Foundation(DFG)/foundations" if "German Research Foundation (DFG)", "Studienstiftung des deutschen Volkes - German Academic Scholarship Foundation", "Friedrich Ebert Foundation", „Friedrich Naumann Foundation", "Hanns Seidel Foundation", "Hans Böckler Foundation", "Heinrich Böll Foundation", "Konrad Adenauer Foundation", "Rosa Luxemburg Foundation" or "Foundation of German Business" - "Uni/Uni of applied sciences/non-university research institution/other" if "university", "university of applied sciences", "non-university research institution" or "other, namely"
bfin04a_g1	Amount of income: job at university/research institution	Transformation of the information on the amount of income in string format (bfin04a; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04b_g1	Amount of income: job outside university/research institution	Transformation of the information on the amount of income in string format (bfin04b; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04c_g1	Amount of income: self-empl./freelance with relation to research/development	Transformation of the information on the amount of income in string format (bfin04c; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04d_g1	Amount of income: self-empl./freelance without relation to research/development	Transformation of the information on the amount of income in string format (bfin04d; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04e_g1	Amount of income: other job	Transformation of the information on the amount of income in string format (bfin04e; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04f_g1	Amount of income: grant/scholarship	Transformation of the information on the amount of income in string format (bfin04f; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04g_g1	Amount of income: unemployment benefits (Arbeitslosengeld I oder II)	Transformation of the information on the amount of income in string format (bfin04g; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04h_g1	Amount of income: parental/child-raising/maternity allowance	Transformation of the information on the amount of income in string format (bfin04h; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04i_g1	Amount of income: money from partner, parents, relatives	Transformation of the information on the amount of income in string format (bfin04i; variable not included in the published data) into a

		numeric variable with removal of thousands separators and rounding of decimal places
bfin04j_g1	Amount of income: income from other sources (savings, loans, …)	Transformation of the information on the amount of income in string format (bfin04j; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin04k_g1	Amount of income: other	Transformation of the information on the amount of income in string format (bfin04k; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
blcd13a_g1	Current situation (aggregated)	Recoding of current situation (blcd13a) to category "other", if "holding a grant/scholarship", "in practical training „, "housewife/house husband" or "other"
bfin08a_g1	Income: grant/scholarship	Transformation of the information on the amount of income in string format (bfin08a; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin08b_g1	Income: unemployment benefits (Arbeitslosengeld I oder II)	Transformation of the information on the amount of income in string format (bfin08b; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin08c_g1	Income: parental/child-raising/maternity allowance	Transformation of the information on the amount of income in string format (bfin08c; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin08d_g1	Income: money from partner, parents, relatives	Transformation of the information on the amount of income in string format (bfin08d; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin08e_g1	Income: other sources (savings, loans, …)	Transformation of the information on the amount of income in string format (bfin08e; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bfin08f_g1	Income: other	Transformation of the information on the amount of income in string format (bfin08f; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
bemp61a_g1	Current occupation: beginning - month (agg.)	Recoding of the month of the beginning of the current occupation (bemp61a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
bemp62a_g1	Last occupation: end - month (agg.)	Recoding of the month of the end of the last occupation (bemp62a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
bemp67_g1	Current job: number of contracts with your current employer	Transformation of the information on the number of contracts in string format (bemp67; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
bemp75_g1	Current job: contractually agreed weekly working hours (full-time)	Transformation of the information on the contractually agreed weekly working hours (full-time) in string format (bemp75; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
bemp76_g1	Current job: contractually agreed % of working time (part-time)	Transformation of the information on the contractually agreed percentage of working time (part-time) in string format (bemp76; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
bemp81a_g2	Current job: monthly gross income (Correction bemp81a+b)	Aggregation of the information on the amount of income (bemp81a_g1; variable not included in the published data) and the

		incorrectly in the open response on the currency (bemp81b; variable not included in the published data) entered income data
bemp81b_g1	Current job: currency (Euro+foreign currency)	Coding of the open response on currency (bemp81b; variable not included in the published data) to currency codes according to ISO 4217 (If no clear assignment could be made, the code "-966 not determinable" was assigned.)
bemp81b_g2	Current job: foreign currency exchange rate to Euro 01.05.2020	Indication of the exchange rate to euros of the currency (bemp81b_g1) as of 01.05.2020 (if income not in euros)
bemp81_g1	Current job: monthly gross income in Euro (agg., Top-Coding)	Recoding of monthly gross income (bemp81a_g2) by 1) conversion to Euros (rounded), if foreign currency (bemp81b_g1) according to exchange rate of 05/01/2020 (bemp81b_g2) 2) Top-Coding from 85.000 Euros
bemp81_g2	Current job: monthly gross income in Euro (agg., 20 categories)	Recoding of top-coded monthly gross income in Euro (bemp81_g1) to categories: - "up to 250 Euro" - "251 - 500 Euro" - "501 - 750 Euro" - "751 - 1.000 Euro" - "1.001 - 1.250 Euro" - "1.251 - 1.500 Euro" - "1.501 - 1.750 Euro" - "1.751 - 2.000 Euro" - "2.001 - 2.250 Euro" - "2.251 - 2.500 Euro" - "2.501 - 2.750 Euro" - "2.751 - 3.000 Euro" - "3.001 - 3.500 Euro" - "3.501 - 4.000 Euro" - "4.001 - 4.500 Euro" - "4.501 - 5.000 Euro" - "5.001 - 5.500 Euro" - "5.501 - 6.000 Euro" - "6.001 - 6.500 Euro" - "more than 6.500 Euro" (At 0 Euro the "not determinable"-missing (-966) was assigned)
bemp81_g3	Current job: monthly gross income in Euro (agg., 4 categories)	Recoding of aggregated monthly gross income in Euro (20 categories) (bemp81_g2) to categories: - "up to 1.250 Euro" - "1.251 - 2.500 Euro" - "2.501 - 4.500 Euro" - "more than 4.500 Euro"
bemp84a_g1	Current job: company size (aggregated, 12 categories)	Recoding of company size (bemp84a) to category "freelance, without employees or less than 5 employees", if "less than 5 employees" or "freelance, without employees"
bemp84a_g2	Current job: company size (aggregated, 6 categories)	Recoding of company size (bemp84a) to categories: - "2.500 and more employees" - "500 to 2.499 employees" - "100 to 499 employees" - "20 to 99 employees" - "freelance, without employees or 1 to 19 employees" - "other"
bemp85c_g1	Current job: management function - number of subordinates (agg., 12 cat.)	Recoding of number of subordinates (bemp85c) to categories: - "1" - "2" - "3" - "4" - "5" - "6-7" - "8-10" - "11-15" - "16-20" - "21-50" - "51-100" - "more than 100"
bemp85c_g2	Current job: management function - number of subordinates (agg., 6 cat.)	Recoding of number of subordinates (bemp85c) to categories: - "1-2" - "3-5" - "6-10" - "11-20" - "21-100" - "more than 100"

bemp90a_g1	Current job: sector (aggregated)	Recoding of sector (bemp90a) to categories: - "agriculture and forestry, fisheries, energy and water management, mining" - "manufacturing sector, industry, construction" - "service sector" - "institutions of higher edcuation" - "research institutes" - "other in education, research, culture" - "associations, organizations, foundations (nonprofit)"
bemp91a_g1	Organisation: higher education institution (aggregated)	Recoding of type of higher education institution (bemp91a) to category "university, technical university, college of art, college of music" if "university, technical university" or "college of art, college of music"
bemp92a_g1	Research organisation - type (aggregated)	Recoding of type of research organisation (bemp92a) to category "other research organisation" if "privately funded research organisation" or "other"
bemp94a_g1	Scientific staff category (aggregated)	Recoding of scientific staff category (bemp94a) to categories: - "research assistant" - "contract/private lecturer, university teacher for special assignments, lecturer/assistant" - "academic councilor with (un)limited contract, academic senior councilor with (un)limited contract" - "junior professor, professor (including temporary professor, etc.)" - "other"
bemp95a_g1	Current job: occupational status (aggregated)	Recoding of occupational status (bemp95a) to category "other occupational status", if "free lancer", "trainee", "in internship", "employee (blue collar)" or "none of the above, but"
blcd07_g1	Number of children	Transformation of the information on the number of children in string format (blcd07; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
blcd07_g2	Number of children (aggregated)	Recoding of number of children (blcd07_g1) to category "5 or more", if more than 4 children
blcd08_g1	Age of the youngest child in the year of the survey	Aggregation of the single information on years of birth of children: (blcd08a bis blcd08j) to the categories: - "younger than 3 years", if youngest child younger than 3 years in the year of the survey - "3-5 years", if youngest child between 3 and 5 years old in the year of the survey - "6-15 years", if youngest child between 6 and 15 years old in the year of the survey - "16 years and older", if youngest child at least 16 years old in the year of the survey (calculation based on years, therefore not accurate to month or day)
bhea03_g1	Number of days: mentally not feeling well in the last four weeks	Transformation of the information on the number of days on which the respondents were mentally not feeling well in the last four weeks in string format (bhea03; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
bhea04_g1	Number of days: everyday activities restricted in the last four weeks	Transformation of the information on the number of days on which the respondents were restricted in everyday activities in the last four weeks in string format (bhea04; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
bpop01a_g1	Politic: interest (generated with bpop01a+bpop01b)	Aggregation of the information on political interest (bpop01a, bpop01b) by harmonising the scales of the original variables
bfed01a_g1	Type of practical training (aggregated)	Recoding of type of practical training (bfed01a) to category "other practical training", if "other internship for a civil service career", "curacy" or "probationary internship/year as a social worker or social pedagogue"
cdsv04_g1	Number of supervisors	Transformation of the information on the number of supervisors in string format (cdsv04; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdsv07_g1	(Main-) supervisor: formal supervision status (agg.)	Recoding of the formal supervision status of supervisor (cdsv07) to the category "official supervisor" if "first supervisor/first reviewer", "second supervisor/second reviewer" or "other official supervisor/reviewer"
cdcd41a_g1	Number of courses/lectures taken part in the last twelve months	Transformation of the information on the number of courses/lectures in string format (cdcd41a; variable not included in the published

		data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdcd42a_g1	Number of compulsory courses/lectures in the last twelve months	Transformation of the information on the number of compulsory courses/lectures in string format (cdcd42a; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cfin03a_g1	Scholarship provider (aggregated)	Recoding of the scholarship provider (cfin03a) to the categories: - "German Research Foundation(DFG)/foundations" if "German Research Foundation (DFG)", "Studienstiftung des deutschen Volkes - German Academic Scholarship Foundation", "Friedrich Ebert Foundation", "Friedrich Naumann Foundation", "Hanns Seidel Foundation", "Hans Böckler Foundation", "Heinrich Böll Foundation", "Konrad Adenauer Foundation", "Rosa Luxemburg Foundation" or "Foundation of German Business" - "Uni/Uni of applied sciences/non-university research institution/other" if "university", "university of applied sciences", "non-university research institution" or "other, namely"
cfin14a_g1	Amount of income: job at university/research institution	Transformation of the information on the amount of income in string format (cfin14a; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin14b_g1	Amount of income: job outside university/research institution	Transformation of the information on the amount of income in string format (cfin14b; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin14c_g1	Amount of income: freelance with relation to research/development	Transformation of the information on the amount of income in string format (cfin14c; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin14d_g1	Amount of income: freelance without relation to research/development	Transformation of the information on the amount of income in string format (cfin14d; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin14f_g1	Amount of income: grant/scholarship	Transformation of the information on the amount of income in string format (cfin14f; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin14g_g1	Amount of income: unemployment benefit I or II	Transformation of the information on the amount of income in string format (cfin14g; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin14i_g1	Amount of income: money from partner, parents, relatives	Transformation of the information on the amount of income in string format (cfin14i; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin14j_g1	Amount of income: income from other sources (savings, loans, …)	Transformation of the information on the amount of income in string format (cfin14j; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin14k_g1	Amount of income: other	Transformation of the information on the amount of income in string format (cfin14k; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cdwr09b_g1	Number of taught semester hours per week summer term 2019	Transformation of the information on the number of semester hours per week in string format (cdwr09b; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdwr14b_g1	Number of taught semester hours per week winter term 2019/2020	Transformation of the information on the number of semester hours per week in string format (cdwr14b; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdwr15b_g1	Number of taught semester hours per week summer term 2020	Transformation of the information on the number of semester hours per week in string format (cdwr15b; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)

cdwr16b_g1	Number of taught semester hours per week winter term 2020/2021	Transformation of the information on the number of semester hours per week in string format (cdwr16b; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdwr23_g1	Number of contractually agreed contact hours	Transformation of the information on the number of contact hours in string format (cdwr23; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdcd36_g1	Doctorate progress	Transformation of the information on doctorate progress (cdcd36; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdbi10a_g1	University of doctorate (Destatis key)	Coding of the open response on the university of doctorate (cdbi10a; variable not included in the published data) to university according to the Destatis key list of student and examination statistics, doctoral candidates statistics WS 2018/2019 and SS 2019 (in some cases, codes were used that are only contained in key 2.3 as obsolete code, but not in key 2.2 because there were changes, e.g. consolidations, splits or dissolutions of university locations.) For universities with several locations, the information on the location of the university (cdbi10b; variable not included in the published data) was used.
cdbi15_g0	Doctoral subject/discipline: subject (destatis)	Coding of the open response on the doctoral subject/discipline (cdbi15; variable not included in the published data) to doctoral subject/discipline according to the Destatis subject classification WS 2017/2018 (if more than one subject was specified, the first subject was coded)
cdbi15_g1	Doctoral subject/discipline: area of study (destatis)	Recoding of doctoral subject/discipline according to Destatis (cdbi15_g0) to area of study according to the Destatis subject classification WS 2017/2018
cdbi15_g2	Doctoral subject/discipline: subject group (destatis)	Recoding of the Destatis area of study of the doctoral subject/discipline (cdbi15_g1) to subject group according to the Destatis subject classification WS 2017/2018 (Note: In the original subject classification, the subject groups are assigned to codes 1-5 resp. 7-9, i.e. without code 6. Here, however, codes 1-8 have been assigned.) If the Destatis area of study contained the missing "not determinable", it was tried to assign a subject group based on the open response on the doctoral subject/discipline (cdbi15; variable not included in the published data).
cdbi15_g3	Doctoral subject/discipline: subject group (DZHW)	Recoding of the Destatis area of study of the doctoral subject/discipline (cdbi15_g1) to subject group according to a reference list of Destatis areas of study to a project-specific subject group classification. If the Destatis area of study contained the missing "not determinable", it was tried to assign a subject group according to the project-specific classification based on the open response on the doctoral subject/discipline (cdbi15; variable not included in the published data).
cdbi16a_g1	Doctorate grade (aggregated, 6 cat.)	Recoding of doctorate grade (cdbi16a) to category "Satis bene (satisfactory)/Rite (pass)" if "Satis bene (satisfactory)" or "Rite (pass)"
cdbi16a_g2	Doctorate grade (aggregated, 5 cat.)	Recoding of doctorate grade (cdbi16a) to category "other" if "Satis bene (satisfactory)", "Rite (pass)" or "other"
cdcd39a_g1	Receipt of the doctoral certificate: month (aggregated)	Recoding of the month of the date of receipt of doctoral certificate (cdcd39a) to quarter
cdsv24a_g1	Number of formal reviewers of the dissertation: univ. of registration	Transformation of the information on the number of formal reviewers in string format (cdsv24a; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdsv24a_g2	Number of formal reviewers of the dissertation: univ. of registration (agg.)	Recoding of number of formal reviewers at university of registration (cdsv24a_g1) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
cdsv24b_g1	Number of formal reviewers of the dissertation: other university	Transformation of the information on the number of formal reviewers in string format (cdsv24b; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdsv24b_g2	Number of formal reviewers of the dissertation: other university (agg.)	Recoding of number of formal reviewers at another university (cdsv24b_g1) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)

cdsv24c_g1	Number of formal reviewers of the dissertation: other univ. of app. sci.	Transformation of the information on the number of formal reviewers in string format (cdsv24c; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdsv24c_g2	Number of formal reviewers of the dissertation: other univ. of app. sci. (agg.)	Recoding of number of formal reviewers at another university of applied sciences (cdsv24c_g1) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
cdsv24d_g1	Number of formal reviewers of the dissertation: (non-univ.) res. inst. (agg.)	Recoding of number of formal reviewers at a (non-university) research institution (cdsv24d) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
cdsv24e_g1	Number of formal reviewers of the dissertation: other institution (agg.)	Recoding of number of formal reviewers at another institution (cdsv24e) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
cdsv24f_g1	Number of formal reviewers of the dissertation: not affiliated with inst. (agg.)	Recoding of number of formal reviewers, who are not affiliated with any institution (cdsv24f), to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
cdtc08a_g1	Number scient. pub. since start of doc.: papers journals with peer-review (agg.)	Recoding of number of papers in journals with peer review (cdtc08a) to category "17 or more", if more than 16 (it should be noted that no plausibility check was carried out)
cdtc08b_g1	Number scient. pub. since start of doc.: papers journals without peer-rev (agg.)	Recoding of number of papers in journals without peer review (cdtc08b) to category "11 or more", if more than 10 (it should be noted that no plausibility check was carried out)
cdtc08c_g1	Number scient. pub. since start of doc.: papers in edited volumes (agg.)	Recoding of number of papers in edited volumes (cdtc08c) to category "11 or more", if more than 10 (it should be noted that no plausibility check was carried out)
cdtc08d_g1	Number scient. pub. since start of doc.: scientific books (agg.)	Recoding of number of scientific books (cdtc08d) to category "4 or more", if more than 3 (it should be noted that no plausibility check was carried out)
cdtc08e_g1	Number scient. pub. since start of doc.: edited volumes or special issues (agg.)	Recoding of number of edited volumes or special issues (cdtc08e) to category "4 or more", if more than 3 (it should be noted that no plausibility check was carried out)
cdtc08f_g1	Number scient. pub. since start of doc.: other scientific publications	Transformation of the information on the number of other scientific publications in string format (cdtc08f; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdtc08f_g2	Number scient. pub. since start of doc.: other scientific publications (agg.)	Recoding of number of other scientific publications (cdtc08f_g1) to category "11 or more", if more than 10 (it should be noted that no plausibility check was carried out)
cdtc17a_g1	Number res.-based cont. since start of doc.: practitioner/tech. journals (agg.)	Recoding of number of contributions in practitioner journals or technical journals (cdtc17a) to category "7 or more", if more than 6 (it should be noted that no plausibility check was carried out)
cdtc17b_g1	Number res.-based cont. since start of doc.: art. in daily/weekly newsp. (agg.)	Recoding of number of articles in daily or weekly newspapers (cdtc17b) to category "6 or more", if more than 5 (it should be noted that no plausibility check was carried out)
cdtc17c_g1	Number res.-based cont. since start of doc.: online media (agg.)	Recoding of number of contributions in online media (cdtc17c) to category "11 or more", if more than 10 (it should be noted that no plausibility check was carried out)
cdtc17d_g1	Number res.-based cont. since start of doc.: cont. to radio/TV programmes (agg.)	Recoding of number of contributions to radio programmes or TV programmes (cdtc17d) to category "4 or more", if more than 3 (it should be noted that no plausibility check was carried out)
cdtc17e_g1	Number res.-based cont. since start of doc.: press releases (agg.)	Recoding of number of press releases (cdtc17e) to category "6 or more", if more than 5 (it should be noted that no plausibility check was carried out)
cdtc17f_g1	Number res.-based cont. since start of doc.: cont. to other media	Transformation of the information on the number of contributions to other media in string format (cdtc17f; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdtc17f_g2	Number res.-based cont. since start of doc.: cont. to other media (agg.)	Recoding of number of contributions to other media (cdtc17f_g1) to category "6 or more", if more than 5 (it should be noted that no plausibility check was carried out)
cdtc09_g1	Since start of doctorate: number of academic conferences	Transformation of the information on the number of academic conferences in string format (cdtc09; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdtc11b_g1	Academic conferences: own giving talks: open response	Transformation of the information on the number of own giving talks on academic conferences in string format (cdtc11b; variable not included in the published data) into a numeric variable (If no

		assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdtc11b_g2	Academic conferences: own giving talks: open response (agg.)	Recoding of number of own giving talks on academic conferences (cdtc11b_g1) to category "21 or more", if more than 20 (it should be noted that no plausibility check was carried out)
cdtc12b_g1	Academic conferences: own presented posters: open response	Transformation of the information on the number of own presented posters on academic conferences in string format (cdtc12b; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdtc12b_g2	Academic conferences: own presented posters: open response (agg.)	Recoding of number of own presented posters on academic conferences (cdtc12b_g1) to category "11 or more", if more than 10 (it should be noted that no plausibility check was carried out)
cdtc18_g1	Number of articles reviewed s. beginning of the doctorate	Transformation of the information on the number of articles reviewed in string format (cdtc18; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cdtc18_g2	Number of articles reviewed s. beginning of the doctorate (agg.)	Recoding of number of reviewed articles (cdtc18_g1) to category "21 or more", if more than 20 (it should be noted that no plausibility check was carried out)
cabr07ab_g1	1. Stay abroad: country	Coding of the open response on country of stay abroad (cabr07ab; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr07ab_g2	1. Stay abroad: country (world regions)	Recoding of country of 1st stay abroad (cabr07ab_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
cabr07ac_g1	1. Stay abroad: length (months)	Transformation of the information on the length of stay abroad in months in string format (cabr07ac; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cabr07ad_g1	1. Stay abroad: beginning (month) (agg.)	Recoding of the month of beginning of 1st stay abroad (cabr07ad) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cabr07ae_g1	1. Stay abroad: beginning (year)	Transformation of the information on the year of the beginning of the stay abroad in string format (cabr07ae; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cabr07bb_g1	2. Stay abroad: country	Coding of the open response on country of stay abroad (cabr07bb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr07bb_g2	2. Stay abroad: country (world regions)	Recoding of country of 2nd stay abroad (cabr07bb_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
cabr07bc_g1	2. Stay abroad: length (months)	Transformation of the information on the length of stay abroad in months in string format (cabr07bc; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cabr07bd_g1	2. Stay abroad: beginning (month) (agg.)	Recoding of the month of beginning of 2nd stay abroad (cabr07bd) to categories: - "January/February" - "March/April" - "May/June" - "July/August"

		- "September/October" - "November/December"
cabr07cb_g1	3. Stay abroad: country	Coding of the open response on country of stay abroad (cabr07cb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr07cb_g2	3. Stay abroad: country (world regions)	Recoding of country of 3rd stay abroad (cabr07cb_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
cabr07cc_g1	3. Stay abroad: length (months)	Transformation of the information on the length of stay abroad in months in string format (cabr07cc; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cabr07cd_g1	3. Stay abroad: beginning (month) (agg.)	Recoding of the month of beginning of 3rd stay abroad (cabr07cd) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cabr07ce_g1	3. Stay abroad: beginning (year)	Transformation of the information on the year of the beginning of the stay abroad in string format (cabr07ce; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cabr07db_g1	4. Stay abroad: country	Coding of the open response on country of stay abroad (cabr07db; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr07db_g2	4. Stay abroad: country (world regions)	Recoding of country of 4th stay abroad (cabr07db_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
cabr07dd_g1	4. Stay abroad: beginning (month) (agg.)	Recoding of the month of beginning of 4th stay abroad (cabr07dd) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cabr07eb_g1	5. Stay abroad: country	Coding of the open response on country of stay abroad (cabr07eb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr07eb_g2	5. Stay abroad: country (world regions)	Recoding of country of 5th stay abroad (cabr07eb_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
cabr07ed_g1	5. Stay abroad: beginning (month) (agg.)	Recoding of the month of beginning of 5th stay abroad (cabr07ed) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cabr07fb_g1	6. Stay abroad: country	Coding of the open response on country of stay abroad (cabr07fb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in

		the list or the response was too imprecise or included several countries)
cabr07fb_g2	6. Stay abroad: country (world regions)	Recoding of country of 6th stay abroad (cabr07fb_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
cabr07fd_g1	6. Stay abroad: beginning (month) (agg.)	Recoding of the month of beginning of 6th stay abroad (cabr07fd) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cabr06aa_g1	Plans to go abroad after doctorate: perm. empl. without research focus (country)	Coding of the open response on country (cabr06aa; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr06bb_g1	Plans to go abroad after doctorate: permanent empl. with res. focus (country)	Coding of the open response on country (cabr06bb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr06cc_g1	Plans to go abroad after doctorate: temporary empl. without res. focus (country)	Coding of the open response on country (cabr06cc; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr06dd_g1	Plans to go abroad after doctorate: temporary research/teaching stint (country)	Coding of the open response on country (cabr06dd; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr06ee_g1	Plans to go abroad after doctorate: period of further training (country)	Coding of the open response on country (cabr06ee; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cabr06ff_g1	Plans to go abroad after doctorate: other/private stay (country)	Coding of the open response on country (cabr06ff; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
clcd15_g1	Employm. status: other (incl. scholarsh., pract. train., housewife/househusband)	Aggregation of the single items "grant/scholarship", "in practical training", "housewife/house husband" and "other" regarding employment status (clcd15a, clcd15b, clcd15f, clcd15g) to the categories: - "no" if not "yes" for any of the single items - "yes" if "yes" for one of the single items
cfin16a_g1	Income: grant/scholarship	Transformation of the information on the amount of income in string format (cfin16a; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin16b_g1	Income: unemployment benefit I or II	Transformation of the information on the amount of income in string format (cfin16b; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin16e_g1	Income: other sources	Transformation of the information on the amount of income in string format (cfin16e; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cfin16f_g1	Income: other	Transformation of the information on the amount of income in string format (cfin16f; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cemp146_g1	Current job: occupational status (aggregated)	Recoding of occupational status (cemp146) to categories: - "employee (white collar)" - "self-employed, in a liberal profession (freier Beruf) or undertaking on-contract or commission-based work"

		- "civil servant, judge, career military personnel" - "other occupational status"
cemp118a_g1	Since when current/last job: month (agg.)	Recoding of the month of the beginning of the current/last job (cemp118a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cemp119a_g1	End of last job: month (agg.)	Recoding of the month of the end of the last job (cemp119a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cemp126_g1	Current job: contractually agreed weekly working hours (full-time)	Transformation of the information on the number of contractually agreed weekly working hours (full-time) in string format (cemp126; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp127_g1	Current job: contractually agreed % of working time (part-time)	Transformation of the information on the contractually agreed proportion of working time in string format (cemp127; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp128_g1	Current job: contractually agreed weekly working hours (part-time)	Transformation of the information on the number of contractually agreed weekly working hours (part-time) in string format (cemp128; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp131_g1	Current job: actual average working hours per week	Transformation of the information on the number of actual average working hours per week in string format (cemp131; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp120a_g1	Current/last occupation: beginning - month (agg.)	Recoding of the month of the beginning of contract of the current/last occupation (cemp120a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cemp121a_g1	Last occupation: end - month (agg.)	Recoding of the month of the end of contract of the last occupation (cemp121a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
cemp122_g1	Current job: total duration of the current contract	Transformation of the information on the total duration of the current contract in string format (cemp122; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp123_g1	Current job: duration of the follow-up contract (in months)	Transformation of the information on the duration of the follow-up contract in months in string format (cemp123; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp12_g1	Current job: number of contracts with your current employer	Transformation of the information on the number of contracts with the current employer in string format (cemp12; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp133a_g1	Current job: monthly gross income	Transformation of the information on the amount of monthly gross income in string format (cemp133a; variable not included in the

		published data) into a numeric variable with removal of thousands separators and rounding of decimal places
cemp133b_g1	Current job: currency (Euro+foreign currency)	Coding of the open response on currency (cemp133b; variable not included in the published data) to currency codes according to ISO 4217 (If no clear assignment could be made, the code "-966 not determinable" was assigned.)
cemp133b_g2	Current job: foreign currency exchange rate to Euro 05.2021	Indication of the exchange rate to euros of the currency (cemp133b_g1) as of 05.2021 (if income not in euros) regarding exchange rate calculator on the website of the European commission
cemp133_g1	Current job: monthly gross income in Euro (agg., Top-Coding)	Recoding of monthly gross income (cemp133a_g1) by 1) conversion to Euros (rounded), if foreign currency (cemp133b_g1) according to exchange rate of 05/2021 (cemp133b_g2) 2) Top-Coding to the categories "85.000 Euro to less than 100.000 Euro" and "100.000 Euro and more"
cemp133_g2	Current job: monthly gross income in Euro (agg., 20 categories)	Recoding of top-coded monthly gross income in Euro (cemp133_g1) to categories: - "up to 250 Euro" - "251 - 500 Euro" - "501 - 750 Euro" - "751 - 1.000 Euro" - "1.001 - 1.250 Euro" - "1.251 - 1.500 Euro" - "1.501 - 1.750 Euro" - "1.751 - 2.000 Euro" - "2.001 - 2.250 Euro" - "2.251 - 2.500 Euro" - "2.501 - 2.750 Euro" - "2.751 - 3.000 Euro" - "3.001 - 3.500 Euro" - "3.501 - 4.000 Euro" - "4.001 - 4.500 Euro" - "4.501 - 5.000 Euro" - "5.001 - 5.500 Euro" - "5.501 - 6.000 Euro" - "6.001 - 6.500 Euro" - "more than 6.500 Euro" (At 0 Euro the "not determinable"-missing (-966) was assigned)
cemp133_g3	Current job: monthly gross income in Euro (agg., 4 categories)	Recoding of aggregated monthly gross income in Euro (20 categories) (cemp133_g2) to categories: - "up to 1.250 Euro" - "1.251 - 2.500 Euro" - "2.501 - 4.500 Euro" - "more than 4.500 Euro"
cemp136a_g1	Current/last place of work: first three digits of postal code	Correction of the open response of the postal code (3-digit) (cemp136a; variable not included in the published data) if more/fewer digits have been indicated or other information has been provided. If the postal code was not specified, but instead a name of the place (cemp136b; variable not included in the published data), the postal code of the station or the municipality of the respective town was coded. (In the case of ambiguous information, the code "-966 not determinable" has been assigned. For postal codes from abroad the code "-989 filtered" has been assigned.)
cemp136a_g2	Current/last place of work: first two digits of postal code	Recoding of postal code (3-digit) of current/last place of work (cemp136a_g1) to postal code (2-digit)
cemp136c_g1	Current/last place of work: country (abroad)	Coding of the open response on country (cemp136c; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
cemp136c_g2	Current/last place of work: country (abroad) (world regions)	Recoding of country of current/last place of work (cemp136c_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
cemp135a_g1	Current job: company size (aggregated, 12 categories)	Recoding of company size (cemp135a) to category "freelance, without employees or less than 5 employees", if "less than 5 employees" or "freelance, without employees"
cemp135a_g2	Current job: company size (aggregated, 6 categories)	Recoding of company size (cemp135a) to categories: - "2.500 and more employees" - "500 to 2.499 employees" - "100 to 499 employees"

		- "20 to 99 employees" - "freelance, without employees or 1 to 19 employees" - "other"
cemp137c_g1	Current/last job management function: number of subordinates	Transformation of the information on the number of subordinates in string format (cemp137c; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp137c_g2	Current/last job management function: number of subordinates (agg., 12 cat.)	Recoding of number of subordinates (cemp137c_g1) to categories: - "0" - "1" - "2" - "3" - "4" - "5" - "6-7" - "8-10" - "11-15" - "16-20" - "21-50" - "51-100" - "more than 100"
cemp137c_g3	Current/last job management function: number of subordinates (agg., 6 cat.)	Recoding of number of subordinates (cemp137c_g1) to categories: - "0" - "1-2" - "3-5" - "6-10" - "11-20" - "21-100" - "more than 100"
cemp141a_g1	Current job: sector (aggregated)	Recoding of sector (cemp141a) to categories: - "agriculture and forestry, fisheries, energy and water management, mining" - "manufacturing sector, industry, construction" - "service sector" - "institutions of higher edcuation" - "research institutes" - "other in education, research, culture" - "associations, organizations, foundations (nonprofit)"
cemp142a_g1	Organisation: higher education institution (aggregated)	Recoding of type of higher education institution (cemp142a) to category "university, technical university, college of art, college of music" if "university, technical university" or "college of art, college of music"
cemp143a_g1	Research organisation - type (aggregated)	Recoding of type of research organisation (cemp143a) to category "other research organisation" if "privately funded research organisation" or "other"
cemp145a_g1	Scientific staff category (aggregated)	Recoding of scientific staff category (cemp145a) to categories: - "research assistant" - "contract/private lecturer, university teacher for special assignments, lecturer/assistant" - "academic councilor with (un)limited contract, academic senior councilor with (un)limited contract" - "junior professor, professor (including temporary professor, etc.)" - "other"
cdcd22_g1	Hours per week to work on the doctorate	Transformation of the information on the number of hours per week to work on the doctorate in string format (cdcd22; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
cemp72_g1	Current job: contract. defined proportion of working time for doc.: in percent	Transformation of the information on the contractually defined proportion of working time for doctorate in string format (cemp72; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
clcd07_g1	Number of children (aggregated)	Recoding of number of children (clcd07) to category "5 or more", if more than 4 children (it should be noted that four cases stated more than ten children and no plausibility check was carried out.)
clcd08aa_g1	Month of birth of children: 1. child	Transformation of the information on the month of birth of the 1. child in string format (clcd08aa; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)

clcd08ba_g1	Month of birth of children: 2. child	Transformation of the information on the month of birth of the 2. child in string format (clcd08ba; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
clcd08ca_g1	Month of birth of children: 3. child	Transformation of the information on the month of birth of the 3. child in string format (clcd08ca; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
clcd08da_g1	Month of birth of children: 4. child	Transformation of the information on the month of birth of the 4. child in string format (clcd08da; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
clcd08_g1	Age of the youngest child in the year of the survey	Aggregation of the single information on years of birth of children (clcd08ab to clcd08jb) to the categories: - "younger than 3 years", if youngest child younger than 3 years in the year of the survey - "3-5 years", if youngest child between 3 and 5 years old in the year of the survey - "6-15 years", if youngest child between 6 and 15 years old in the year of the survey - "16 years and older", if youngest child at least 16 years old in the year of the survey (calculation based on years, therefore not accurate to month or day; it should be noted that implausible year values were included as "not determinable"-missing (-966) for the calculation)
clcd16a_g1	Current place of main residence: first three digits of postal code	Correction of the open response of the postal code (3-digit) (clcd16a; variable not included in the published data) if more/fewer digits have been indicated or other information has been provided. If the postal code was not specified, but instead a name of the place (clcd16b; variable not included in the published data), the postal code of the station or the municipality of the respective town was coded. (In the case of ambiguous information, the code "-966 not determinable" has been assigned. For postal codes from abroad the code "-989 filtered" has been assigned.)
clcd16a_g2	Current place of main residence: first two digits of postal code	Recoding of postal code (3-digit) of current place of main residence (clcd16a_g1) to postal code (2-digit)
clcd16c_g1	Current place of main residence: country (abroad)	Coding of the open response on country (clcd16c; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
clcd16c_g2	Current place of main residence: country (abroad) (world regions)	Recoding of country of current place of main residence (clcd16c_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
chea11_g1	Number of days: physically not feeling well in the last four weeks	Transformation of the information on the number of days on which the respondents felt physically unwell in the last four weeks in string format (chea11; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
chea13_g1	Number of days: everyday activities restricted in the last four weeks	Transformation of the information on the number of days on which the respondents were restricted in everyday activities in the last four weeks in string format (chea13; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
ckom02_g1	Use of online networks/channels: other social media (incl. blog/podcast/webpage)	Aggregation of the single items "own blog", "own podcast", "own webpage" and "other social media" regarding use of online networks/channels (ckom02g-ckom02j) to the categories: - "no" if not "yes" for any of the single items - "yes" if "yes" for one of the single items
ddsv07_g1	(Main-) supervisor: formal supervision status (agg.)	Recoding of the formal supervision status of supervisor (ddsv07) to the category "official supervisor" if "first supervisor/first reviewer", "second supervisor/second reviewer" or "other official supervisor/reviewer"
dfin19a_g1	Funding: institution (aggregated)	Recoding of the funding institution (dfin19a) to the categories: - "German Research Foundation(DFG)/foundation/study centre" if "German Research Foundation (DFG)", "Studienstiftung des deutschen Volkes - German Academic Scholarship Foundation", "Friedrich Ebert Foundation", "Friedrich Naumann Foundation", "Hanns Seidel Foundation", "Hans Böckler Foundation", "Heinrich Böll Foundation", "Konrad Adenauer Foundation", "Rosa Luxemburg

		Foundation", "Foundation of German Business", "Avicenna Study Centre", "Cusanus Centre", "Ernst Ludwig Ehrlich Study Centre" or "Evangelic Study Centre e.V. Villigst" - "Uni/Uni of applied sciences/non-university research institution/other" if "university", "university of applied sciences", "non-university research institution" or "other"
dfin14a_g1	Income (net): job at university/research institution	Transformation of the information on the amount of income in string format (dfin14a; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14b_g1	Income (net): job outside university/research institution	Transformation of the information on the amount of income in string format (dfin14b; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14c_g1	Income (net): freelance with relation to research/development	Transformation of the information on the amount of income in string format (dfin14c; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14d_g1	Income (net): freelance without relation to research/development	Transformation of the information on the amount of income in string format (dfin14d; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14f_g1	Income (net): grant/scholarship	Transformation of the information on the amount of income in string format (dfin14f; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14g_g1	Income (net): unemployment benefit I or II	Transformation of the information on the amount of income in string format (dfin14g; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14h_g1	Income (net): parental/child-raising/maternity allowance	Transformation of the information on the amount of income in string format (dfin14h; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14i_g1	Income (net): money from partner, parents, relatives	Transformation of the information on the amount of income in string format (dfin14i; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14l_g1	Income (net): investments, savings, insurances or loans	Transformation of the information on the amount of income in string format (dfin14l; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
dfin14k_g1	Income (net): other	Transformation of the information on the amount of income in string format (dfin14k; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
ddbi10a_g1	University of doctorate (Destatis key)	Coding of the open response on the university of doctorate (ddbi10a; variable not included in the published data) to university according to the Destatis key list of student and examination statistics, doctoral candidates statistics WS 2018/2019 and SS 2019 (in some cases, codes were used that are only contained in key 2.3 as obsolete code, but not in key 2.2 because there were changes, e.g. consolidations, splits or dissolutions of university locations.) For universities with several locations, the information on the location of the university (ddbi10b; variable not included in the published data) was used.
ddbi15_g0	Doctoral subject/discipline: subject (destatis)	Coding of the open response on the doctoral subject/discipline (ddbi15; variable not included in the published data) to doctoral subject/discipline according to the Destatis subject classification WS 2017/2018 (if more than one subject was specified, the first subject was coded)
ddbi15_g1	Doctoral subject/discipline: area of study (destatis)	Recoding of doctoral subject/discipline according to Destatis (ddbi15_g0) to area of study according to the Destatis subject classification WS 2017/2018
ddbi15_g2	Doctoral subject/discipline: subject group (destatis)	Recoding of the Destatis area of study of the doctoral subject/discipline (ddbi15_g1) to subject group according to the Destatis subject classification WS 2017/2018 (Note: In the original subject classification, the subject groups are assigned to codes 1-5 resp. 7-9, i.e. without code 6. Here, however, codes 1-8 have been assigned.)

		If the Destatis area of study contained the missing "not determinable", it was tried to assign a subject group based on the open response on the doctoral subject/discipline (ddbi15; variable not included in the published data).
ddbi15_g3	Doctoral subject/discipline: subject group (DZHW)	Recoding of the Destatis area of study of the doctoral subject/discipline (ddbi15_g1) to subject group according to a reference list of Destatis areas of study to a project-specific subject group classification. If the Destatis area of study contained the missing "not determinable", it was tried to assign a subject group according to the project-specific classification based on the open response on the doctoral subject/discipline (ddbi15; variable not included in the published data).
ddbi16a_g1	Doctorate grade (aggregated, 6 cat.)	Recoding of doctorate grade (ddbi16a) to category "Satis bene (satisfactory)/Rite (pass)" if "Satis bene (satisfactory)" or "Rite (pass)"
ddbi16a_g2	Doctorate grade (aggregated, 5 cat.)	Recoding of doctorate grade (ddbi16a) to category "other" if "Satis bene (satisfactory)", "Rite (pass)" or "other"
ddcd39a_g1	Receipt of the doctoral certificate: month (aggregated)	Recoding of the month of the date of receipt of doctoral certificate (ddcd39a) to quarter
ddsv24a_g1	Number of formal reviewers of the dissertation: univ. of registration (agg.)	Recoding of number of formal reviewers at university of registration (ddsv24a) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
ddsv24b_g1	Number of formal reviewers of the dissertation: other university (agg.)	Recoding of number of formal reviewers at another university (ddsv24b) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
ddsv24c_g1	Number of formal reviewers of the dissertation: other univ. of app. sci. (agg.)	Recoding of number of formal reviewers at another university of applied sciences (ddsv24c) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
ddsv24d_g1	Number of formal reviewers of the dissertation: (non-univ.) res. inst. (agg.)	Recoding of number of formal reviewers at a (non-university) research institution (ddsv24d) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
ddsv24e_g1	Number of formal reviewers of the dissertation: other institution (agg.)	Recoding of number of formal reviewers at another institution (ddsv24e) to category "1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
ddsv24f_g1	Number of formal reviewers of the dissertation: not affiliated with inst. (agg.)	Recoding of number of formal reviewers, who are not affiliated with any institution (ddsv24f), to category „1 or more", if more than 0 (it should be noted that no plausibility check was carried out)
ddtc08a_g1	Number scient. pub. since start of doc.: papers journals with peer-review (agg.)	Recoding of number of papers in journals with peer review (ddtc08a) to category "17 or more", if more than 16 (it should be noted that no plausibility check was carried out)
ddtc08b_g1	Number scient. pub. since start of doc.: papers journals without peer-rev (agg.)	Recoding of number of papers in journals without peer review (ddtc08b) to category "9 or more", if more than 8 (it should be noted that no plausibility check was carried out)
ddtc08c_g1	Number scient. pub. since start of doc.: papers in edited volumes (agg.)	Recoding of number of papers in edited volumes (ddtc08c) to category "9 or more", if more than 8 (it should be noted that no plausibility check was carried out)
ddtc08d_g1	Number scient. pub. since start of doc.: scientific books (agg.)	Recoding of number of scientific books (ddtc08d) to category "4 or more", if more than 3 (it should be noted that no plausibility check was carried out)
ddtc08e_g1	Number scient. pub. since start of doc.: edited volumes or special issues (agg.)	Recoding of number of edited volumes or special issues (ddtc08e) to category "5 or more", if more than 4 (it should be noted that no plausibility check was carried out)
ddtc08f_g1	Number scient. pub. since start of doc.: other scientific publications (agg.)	Recoding of number of other scientific publications (ddtc08f) to category "11 or more", if more than 10 (it should be noted that no plausibility check was carried out)
ddtc17a_g1	Number res.-based cont. since start of doc.: practitioner/tech. journals (agg.)	Recoding of number of contributions in practitioner journals or technical journals (ddtc17a) to category "7 or more", if more than 6 (it should be noted that no plausibility check was carried out)
ddtc17b_g1	Number res.-based cont. since start of doc.: art. in daily/weekly newsp. (agg.)	Recoding of number of articles in daily or weekly newspapers (ddtc17b) to category "7 or more", if more than 6 (it should be noted that no plausibility check was carried out)
ddtc17c_g1	Number res.-based cont. since start of doc.: online media (agg.)	Recoding of number of contributions in online media (ddtc17c) to category "11 or more", if more than 10 (it should be noted that no plausibility check was carried out)
ddtc17d_g1	Number res.-based cont. since start of doc.: cont. to radio/TV programmes (agg.)	Recoding of number of contributions to radio programmes or TV programmes (ddtc17d) to category "6 or more", if more than 5 (it should be noted that no plausibility check was carried out)
ddtc17e_g1	Number res.-based cont. since start of doc.: press releases (agg.)	Recoding of number of press releases (ddtc17e) to category "5 or more", if more than 4 (it should be noted that no plausibility check was carried out)

ddtc17f_g1	Number res.-based cont. since start of doc.: cont. to other media (agg.)	Recoding of number of contributions to other media (ddtc17f) to category "6 or more", if more than 5 (it should be noted that no plausibility check was carried out)
ddtc11b_g1	Academic conferences: own giving talks: open response (agg.)	Recoding of number of own giving talks on academic conferences (ddtc11b) to category "16 or more", if more than 15 (it should be noted that no plausibility check was carried out)
ddtc12b_g1	Academic conferences: own presented posters: open response (agg.)	Recoding of number of own presented posters on academic conferences (ddtc12b) to category "10 or more", if more than 9 (it should be noted that no plausibility check was carried out)
ddtc18_g1	Number of articles reviewed s. beginning of the doctorate (agg.)	Recoding of number of reviewed articles (ddtc18) to category "21 or more", if more than 20 (it should be noted that no plausibility check was carried out)
dabr07ab_g1	1. Stay abroad: country	Coding of the open response on country of stay abroad (dabr07ab; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr07ab_g2	1. Stay abroad: country (world regions)	Recoding of country of 1st stay abroad (dabr07ab_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
dabr07ac_g1	1. Stay abroad: duration (months)	Transformation of the information on the length of stay abroad in months in string format (dabr07ac; variable not included in the published data) into a numeric variable (If no assignment to a numeric value could be made, the code "-966 not determinable" was assigned.)
dabr07ad_g1	1. Stay abroad: start (month) (agg.)	Recoding of the month of beginning of 1st stay abroad (dabr07ad) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
dabr07bb_g1	2. Stay abroad: country	Coding of the open response on country of stay abroad (dabr07bb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr07bb_g2	2. Stay abroad: country (world regions)	Recoding of country of 2nd stay abroad (dabr07bb_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
dabr07bd_g1	2. Stay abroad: start (month) (agg.)	Recoding of the month of beginning of 2nd stay abroad (dabr07bd) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
dabr07cb_g1	3. Stay abroad: country	Coding of the open response on country of stay abroad (dabr07cb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr07cb_g2	3. Stay abroad: country (world regions)	Recoding of country of 3rd stay abroad (dabr07cb_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
dabr07cd_g1	3. Stay abroad: start (month) (agg.)	Recoding of the month of beginning of 3rd stay abroad (dabr07cd) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"

dabr07db_g1	4. Stay abroad: country	Coding of the open response on country of stay abroad (dabr07db; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr07db_g2	4. Stay abroad: country (world regions)	Recoding of country of 4th stay abroad (dabr07db_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
dabr07dd_g1	4. Stay abroad: start (month) (agg.)	Recoding of the month of beginning of 4th stay abroad (dabr07dd) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
dabr07eb_g1	5. Stay abroad: country	Coding of the open response on country of stay abroad (dabr07eb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr07eb_g2	5. Stay abroad: country (world regions)	Recoding of country of 5th stay abroad (dabr07eb_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
dabr07ed_g1	5. Stay abroad: start (month) (agg.)	Recoding of the month of beginning of 5th stay abroad (dabr07ed) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
dabr07fb_g1	6. Stay abroad: country	Coding of the open response on country of stay abroad (dabr07fb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr07fb_g2	6. Stay abroad: country (world regions)	Recoding of country of 6th stay abroad (dabr07fb_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
dabr07fd_g1	6. Stay abroad: start (month) (agg.)	Recoding of the month of beginning of 6th stay abroad (dabr07fd) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
dabr06aa_g1	Plans to go abroad after doctorate: perm. empl. without research focus (country)	Coding of the open response on country (dabr06aa; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr06bb_g1	Plans to go abroad after doctorate: permanent empl. with res. focus (country)	Coding of the open response on country (dabr06bb; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr06cc_g1	Plans to go abroad after doctorate: temporary empl. without res. focus (country)	Coding of the open response on country (dabr06cc; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr06dd_g1	Plans to go abroad after doctorate: temporary research/teaching stint (country)	Coding of the open response on country (dabr06dd; variable not included in the published data) to country according to Destatis

		classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr06ee_g1	Plans to go abroad after doctorate: period of further training (country)	Coding of the open response on country (dabr06ee; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dabr06ff_g1	Plans to go abroad after doctorate: other/private stay (country)	Coding of the open response on country (dabr06ff; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dlcd15_g1	Employment status: other (incl. scholarship, practical training)	Aggregation of the single items "grant/scholarship", „in practical training" and "other" regarding employment status (dlcd15a, dlcd15b, dlcd15g) to the categories: - "no" if not "yes" for any of the single items - "yes" if "yes" for one of the single items
demp146_g1	Current job: occupational status (aggregated)	Recoding of occupational status (demp146) to categories: - "employee (white collar)" - "self-employed, in a liberal profession (freier Beruf) or undertaking on-contract or commission-based work" - "civil servant, judge, career military personnel" - "other occupational status"
demp118a_g1	Since when current/last job: month (agg.)	Recoding of the month of the beginning of the current/last job (demp118a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
demp119a_g1	End of last job: month (agg.)	Recoding of the month of the end of the last job (demp119a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
demp120a_g1	Current/last occupation: beginning - month (agg.)	Recoding of the month of the beginning of contract of the current/last occupation (demp120a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
demp121a_g1	Last occupation: end - month (agg.)	Recoding of the month of the end of contract of the last occupation (demp121a) to categories: - "January/February" - "March/April" - "May/June" - "July/August" - "September/October" - "November/December"
demp133a_g1	Current job: monthly gross income	Transformation of the information on the amount of monthly gross income in string format (demp133a; variable not included in the published data) into a numeric variable with removal of thousands separators and rounding of decimal places
demp133b_g1	Current job: currency (Euro+foreign currency)	Coding of the open response on currency (demp133b; variable not included in the published data) to currency codes according to ISO 4217 (If no clear assignment could be made, the code "-966 not determinable" was assigned.)
demp133b_g2	Current job: foreign currency exchange rate to Euro 05.2022	Indication of the exchange rate to euros of the currency (demp133b_g1) as of 05.2022 (if income not in euros) regarding exchange rate calculator on the website of the European commission
demp133_g1	Current job: monthly gross income in Euro (agg., Top-Coding)	Recoding of monthly gross income (demp133a_g1) by 1) conversion to Euros (rounded), if foreign currency (demp133b_g1) according to exchange rate of 05/2022 (demp133b_g2) 2) Top-Coding from 100.000 Euros

demp133_g2	Current job: monthly gross income in Euro (agg., 20 categories)	Recoding of top-coded monthly gross income in Euro (demp133_g1) to categories: - "up to 250 Euro" - "251 - 500 Euro" - "501 - 750 Euro" - "751 - 1.000 Euro" - "1.001 - 1.250 Euro" - "1.251 - 1.500 Euro" - "1.501 - 1.750 Euro" - "1.751 - 2.000 Euro" - "2.001 - 2.250 Euro" - "2.251 - 2.500 Euro" - "2.501 - 2.750 Euro" - "2.751 - 3.000 Euro" - "3.001 - 3.500 Euro" - "3.501 - 4.000 Euro" - "4.001 - 4.500 Euro" - "4.501 - 5.000 Euro" - "5.001 - 5.500 Euro" - "5.501 - 6.000 Euro" - "6.001 - 6.500 Euro" - "more than 6.500 Euro" (At 0 Euro the "not determinable"-missing (-966) was assigned)
demp133_g3	Current job: monthly gross income in Euro (agg., 4 categories)	Recoding of aggregated monthly gross income in Euro (20 categories) (demp133_g2) to categories: - "up to 1.250 Euro" - "1.251 - 2.500 Euro" - "2.501 - 4.500 Euro" - "more than 4.500 Euro"
demp136a_g1	Current/last place of work: first three digits of postal code	Correction of the open response of the postal code (3-digit) (demp136a; variable not included in the published data) if more/fewer digits have been indicated or other information has been provided. If the postal code was not specified, but instead a name of the place (demp136b; variable not included in the published data), the postal code of the station or the municipality of the respective town was coded. (In the case of ambiguous information, the code "-966 not determinable" has been assigned. For postal codes from abroad the code "-989 filtered" has been assigned.)
demp136a_g2	Current/last place of work: first two digits of postal code	Recoding of postal code (3-digit) of current/last place of work (demp136a_g1) to postal code (2-digit)
demp136c_g1	Current/last place of work: country (abroad)	Coding of the open response on country (demp136c; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
demp136c_g2	Current/last place of work: country (abroad) (world regions)	Recoding of country of current/last place of work (demp136c_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)
demp135a_g1	Current job: company size (aggregated, 12 categories)	Recoding of company size (demp135a) to category "freelance, without employees or less than 5 employees", if "less than 5 employees" or "freelance, without employees"
demp135a_g2	Current job: company size (aggregated, 6 categories)	Recoding of company size (demp135a) to categories: - "2.500 and more employees" - "500 to 2.499 employees" - "100 to 499 employees" - "20 to 99 employees" - "freelance, without employees or 1 to 19 employees" - "other"
demp137c_g1	Current/last job management function: number of subordinates (agg., 12 cat.)	Recoding of number of subordinates (demp137c) to categories: - "0" - "1" - "2" - "3" - "4" - "5" - "6-7" - "8-10" - "11-15" - "16-20"

		- "21-50" - "51-100" - "more than 100"
demp137c_g2	Current/last job management function: number of subordinates (agg., 6 cat.)	Recoding of number of subordinates (demp137c) to categories: - "0" - "1-2" - "3-5" - "6-10" - "11-20" - "21-100" - "more than 100"
demp141a_g1	Current job: sector (aggregated)	Recoding of sector (demp141a) to categories: - "agriculture and forestry, fisheries, energy and water management, mining" - "manufacturing sector, industry, construction" - "service sector" - "institutions of higher edcuation" - "research institutes" - "other in education, research, culture" - "associations, organizations, foundations (nonprofit)"
demp142a_g1	Organisation: higher education institution (aggregated)	Recoding of type of higher education institution (demp142a) to category "university, technical university, college of art, college of music" if "university, technical university" or "college of art, college of music"
demp143a_g1	Research organisation - type (aggregated)	Recoding of type of research organisation (demp143a) to category "other research organisation" if "privately funded research organisation" or "others"
demp145a_g1	Scientific staff category (aggregated)	Recoding of scientific staff category (demp145a) to categories: - "research assistant" - "contract/private lecturer, university teacher for special assignments, lecturer/assistant" - "academic councilor with (un)limited contract, academic senior councilor with (un)limited contract" - "junior professor, professor (including temporary professor, etc.)" - "other"
dlcd07_g1	Number of children (aggregated)	Recoding of number of children (dlcd07) to category "5 or more", if more than 4 children (it should be noted that some cases stated more than ten children and no plausibility check was carried out.)
dlcd08_g1	Age of the youngest child in the year of the survey	Aggregation of the single information on years of birth of children (dlcd08ab to dlcd08jb) to the categories: - "younger than 3 years", if youngest child younger than 3 years in the year of the survey - "3-5 years", if youngest child between 3 and 5 years old in the year of the survey - "6-15 years", if youngest child between 6 and 15 years old in the year of the survey - "16 years and older", if youngest child at least 16 years old in the year of the survey (calculation based on years, therefore not accurate to month or day; it should be noted that implausible year values were included as "not determinable"-missing (-966) for the calculation)
dlcd16a_g1	Current place of main residence: first three digits of postal code	Correction of the open response of the postal code (3-digit) (dlcd16a; variable not included in the published data) if more/fewer digits have been indicated or other information has been provided. If the postal code was not specified, but instead a name of the place (dlcd16b; variable not included in the published data), the postal code of the station or the municipality of the respective town was coded. (In the case of ambiguous information, the code "-966 not determinable" has been assigned. For postal codes from abroad the code "-989 filtered" has been assigned.)
dlcd16a_g2	Current place of main residence: first two digits of postal code	Recoding of postal code (3-digit) of current place of main residence (dlcd16a_g1) to postal code (2-digit)
dlcd16c_g1	Current place of main residence: country (abroad)	Coding of the open response on country (dlcd16c; variable not included in the published data) to country according to Destatis classification of states and territories (04/01/2019) (supplemented by special codes if indicated countries were not included in the list or the response was too imprecise or included several countries)
dlcd16c_g2	Current place of main residence: country (abroad) (world regions)	Recoding of country of current place of main residence (dlcd16c_g1) to world region according to Destatis classification of states and territories (04/01/2019) (special codes have been assigned manually, if possible; otherwise "not determinable"-missing (-966) was assigned)

10.3 Reference list: Destatis areas of study to project-specific subject group classification

Table 21: Allocation of Destatis areas of study to project-specific subject group classification

Destatis area of study (code)	Destatis area of study (label)	DZHW subject group (code)	DZHW subject group (label)
1	humanities (general)	19	linguistic and cultural studies
2	protestant theology, protes. religious education	19	linguistic and cultural studies
3	cath. theology, catholic religious education	19	linguistic and cultural studies
4	philosophy	19	linguistic and cultural studies
5	history	7	history
6	library science, documentation	19	linguistic and cultural studies
7	general and comparative literary studies and linguistics	19	linguistic and cultural studies
8	classical philology, modern Greek	19	linguistic and cultural studies
9	German studies (German, Germanic languages excl. English)	6	German studies
10	English/American studies	19	linguistic and cultural studies
11	Romance studies	19	linguistic and cultural studies
12	Slavic, Baltic, Finno-Ugrian studies	19	linguistic and cultural studies
13	non-European linguistics and cultural studies	19	linguistic and cultural studies
14	cultural studies (in the narrower sense)	19	linguistic and cultural studies
18	islamic studies	19	linguistic and cultural studies
22	sports science	21	sports
23	law, economics and social sciences (general)	14	political and social sciences
24	regional studies	14	political and social sciences
25	political sciences	14	political and social sciences
26	social sciences	14	political and social sciences
27	applied social science	14	political and social sciences
28	law	16	law
29	administrative sciences	14	political and social sciences
30	business and economics	20	business and economics
31	business engineering specialising in economics	20	business and economics
32	psychology	15	psychology and educational sciences
33	educational sciences	15	psychology and educational sciences
36	mathematics, natural sciences (general)	18	other natural sciences
37	mathematics	11	mathematics
39	physics, astronomy	13	physics
40	chemistry	4	chemistry
41	pharmacy	18	other natural sciences
42	biology	3	biology

43	geosciences (excl. geography)	18	other natural sciences
44	geography	18	other natural sciences
48	health sciences (general)	12	medicine
49	human medicine (excl. dentistry)	12	medicine
50	dentistry	12	medicine
51	veterinary medicine	1	agricultural, forest and nutritional sciences, veterinary medicine
57	land management engineering, environmental design	1	agricultural, forest and nutritional sciences, veterinary medicine
58	agricultural science, food and beverage technology	1	agricultural, forest and nutritional sciences, veterinary medicine
59	forestry, wood science	1	agricultural, forest and nutritional sciences, veterinary medicine
60	nutritional and domestic science	1	agricultural, forest and nutritional sciences, veterinary medicine
61	engineering (general)	17	other engineering sciences
62	mining, metallurgy	17	other engineering sciences
63	mechanical engineering/process engineering	10	mechanical engineering
64	electrical engineering and information engineering	5	electrical engineering
65	traffic engineering, nautical science	17	other engineering sciences
66	architecture, interior architecture	2	architecture and civil engineering
67	spatial planning	17	other engineering sciences
68	civil engineering	2	architecture and civil engineering
69	surveying	17	other engineering sciences
70	business engineering specialising in engineering sciences	17	other engineering sciences
71	computer science	8	computer science
72	materials science and materials engineering	17	other engineering sciences
74	art, art theory (general)	9	art, art theory
75	fine arts	9	art, art theory
76	design	9	art, art theory
77	performing arts, film and television studies, theatre studies	9	art, art theory
78	music, musicology	9	art, art theory
83	not specified (outside the study area structure)	-966	not determinable

10.4 Access ways per variable

Note: The overview only lists the variables for which there are restrictions on the access ways or which may have been newly generated as "substitute variables" for variables with restricted access ways. All variables not listed can be used via all access ways.

Table 22:	Wave 1: "Available" vs. "Anonymized" per variable and access way

variable name	variable label	on-site-SUF	remote-desktop-SUF	download-SUF	download-CUF (25% subsample)
alanguage	Language of the questionnaire	available	available	**anonymized**	**anonymized**
adbi02a	Date of start working on the content of doctorate: month	available	available	**anonymized**	**anonymized**
adbi02a_g1	Date of start working on the content of doctorate: month (aggregated)	available	available	available	available
adbi02b	Date of start working on the content of doctorate: year	available	available	**anonymized**	**anonymized**
adbi02b_g1	Date of start working on the content of doctorate: year (aggregated)	available	available	available	available
adbi04a	Date of admission to doctorate (month)	available	available	**anonymized**	**anonymized**
adbi04a_g1	Date of admission to doctorate (month) (aggregated)	available	available	available	available
adbi04b	Date of admission to doctorate (year)	available	available	**anonymized**	**anonymized**
adbi04b_g1	Date of admission to doctorate (year) (aggregated)	available	available	available	available
adbi06a	Date of completion of the doctorate (month)	available	available	**anonymized**	**anonymized**
adbi08a	Date of dropout of the doctorate (month)	available	available	**anonymized**	**anonymized**
adbi09	Date of dropout of the doctorate (request: quarter)	available	available	**anonymized**	**anonymized**
adbi10a_g1	University of doctorate (Destatis key)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adbi12	Joint degree between the universities from Germany and abroad	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adbi15_g0	Doctoral subject/discipline: subject (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adbi15_g1	Doctoral subject/discipline: area of study (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adbi15_g2	Doctoral subject/discipline: subject group (destatis)	available	available	available	available
adbi15_g3	Doctoral subject/discipline: subject group (DZHW)	available	available	**anonymized**	**anonymized**
adcd05a	Type of program: research training group (DFG)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd05b	Type of program: integrated research training group (within a SFB)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd05c	Type of program: graduate school of the excellence initiative (DFG)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd05d	Type of program: without DFG funding	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd05e	Type of program: with DFG funding	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd05f	Type of program: International Max Planck Research School (IMPRS)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd05g	Type of program: program of the Helmholtz Association	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd05h	Type of program: Leibniz Graduate School	**anonymized**	**anonymized**	**anonymized**	**anonymized**

adcd05i	Type of program: doctoral course of studies	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd05j	Type of program: other program	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adid05e	Reasons for dropout thoughts: health problems	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adsv05aa	Institution(s) supervisor(s): supervisor 1	available	available	**anonymized**	**anonymized**
adsv05ba	Institution(s) supervisor(s): supervisor 2	available	available	**anonymized**	**anonymized**
adsv05ca	Institution(s) supervisor(s): supervisor 3	available	available	**anonymized**	**anonymized**
adsv06a	Gender of supervisor(s): supervisor 1	available	available	**anonymized**	**anonymized**
adsv06b	Gender of supervisor(s): supervisor 2	available	available	**anonymized**	**anonymized**
adsv06c	Gender of supervisor(s): supervisor 3	available	available	**anonymized**	**anonymized**
adsv07a	Formal supervision status of supervisor(s): supervisor 1	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adsv07a_g1	Formal supervision status of supervisor(s): supervisor 1 (agg.)	available	available	**anonymized**	**anonymized**
adsv07b	Formal supervision status of supervisor(s): supervisor 2	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adsv07b_g1	Formal supervision status of supervisor(s): supervisor 2 (agg.)	available	available	**anonymized**	**anonymized**
adsv07c	Formal supervision status of supervisor(s): supervisor 3	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adsv07c_g1	Formal supervision status of supervisor(s): supervisor 3 (agg.)	available	available	**anonymized**	**anonymized**
adsv08aa	Position(s) of supervisor(s): supervisor 1	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adsv08ba	Position(s) of supervisor(s): supervisor 2	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adsv08ca	Position(s) of supervisor(s): supervisor 3	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adsv09	Who is the main supervisor?	available	available	**anonymized**	**anonymized**
adsv13	(Main-) supervisor likeable	available	available	**anonymized**	**anonymized**
afin03a	Scholarship provider	**anonymized**	**anonymized**	**anonymized**	**anonymized**
afin03a_g1	Scholarship provider (aggregated)	available	available	**anonymized**	**anonymized**
adcd21a	Ideal doctorate fundings: German Research Foundation (DFG)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21b	Ideal doctorate fundings: German Academic Scholarship Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21c	Ideal doctorate fundings: Friedrich Ebert Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21d	Ideal doctorate fundings: Friedrich Naumann Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21e	Ideal doctorate fundings: Hanns Seidel Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21f	Ideal doctorate fundings: Hans Böckler Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21g	Ideal doctorate fundings: Heinrich Böll Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21h	Ideal doctorate fundings: Konrad Adenauer Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21i	Ideal doctorate fundings: Rosa Luxemburg Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21j	Ideal doctorate fundings: Foundation of German Business	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21_g1	Ideal doctorate fundings: DFG/foundations	available	available	**anonymized**	**anonymized**
adcd21k	Ideal doctorate fundings: University	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21l	Ideal doctorate fundings: University of applied sciences	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21m	Ideal doctorate fundings: non-university research institution	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adcd21n	Ideal doctorate fundings: other	**anonymized**	**anonymized**	**anonymized**	**anonymized**

adcd21_g2	Ideal doctorate fundings: Uni/UAS/non-univ. research institution/other	available	available	**anonymized**	**anonymized**
adcd21p	Ideal doctorate fundings: none of the mentioned institutions	available	available	**anonymized**	**anonymized**
aemp05a	Univ./res. inst.: start of current contract: month	available	available	**anonymized**	**anonymized**
aemp05a_g1	Univ./res. inst.: start of current contract: month (agg.)	available	available	available	available
aemp21a	Outside univ./res. inst.: start of current contract: month	available	available	**anonymized**	**anonymized**
aemp21a_g1	Outside univ./res. inst.: start of current contract: month (agg.)	available	available	available	available
aemp37a	Other employment: start of current contract: month	available	available	**anonymized**	**anonymized**
aemp37a_g1	Other employment: start of current contract: month (agg.)	available	available	available	available
aabr03_g1	Stay abroad country no. 1	available	available	**anonymized**	**anonymized**
aabr03_g2	Stay abroad country no. 2	available	available	**anonymized**	**anonymized**
aabr03_g3	Stay abroad country no. 3	available	available	**anonymized**	**anonymized**
aabr03_g4	Stay abroad country no. 4	available	available	**anonymized**	**anonymized**
aabr03_g5	Stay abroad country no. 5	available	available	**anonymized**	**anonymized**
aabr03_g6	Stay abroad country no. 6	available	available	**anonymized**	**anonymized**
aabr03_g7	Stay abroad country no. 7	available	available	**anonymized**	**anonymized**
aabr03_g8	Stay abroad country no. 8	available	available	**anonymized**	**anonymized**
aabr03_g9	Stay abroad country no. 9	available	available	**anonymized**	**anonymized**
aabr03_g10	Stay abroad country no. 10	available	available	**anonymized**	**anonymized**
aabr03_g11	Stay abroad country no. 11	available	available	**anonymized**	**anonymized**
aabr03_g12	Stay abroad country no. 12	available	available	**anonymized**	**anonymized**
aabr03_g13	Stay abroad country no. 13	available	available	**anonymized**	**anonymized**
aabr03_g14	Stay abroad country no. 14	available	available	**anonymized**	**anonymized**
aabr03_g15	Stay abroad: Europe	available	available	available	available
aabr03_g16	Stay abroad: Africa	available	available	available	available
aabr03_g17	Stay abroad: America	available	available	available	available
aabr03_g18	Stay abroad: Asia	available	available	available	available
aabr03_g19	Stay abroad: Australia, Oceania, Antarctic	available	available	available	available
aabr05g	Obstacles to (further) stays abroad: health problems	**anonymized**	**anonymized**	**anonymized**	**anonymized**
alcd07	Number of children	**anonymized**	**anonymized**	**anonymized**	**anonymized**
alcd07_g1	Number of children (aggregated)	available	available	available	available
alcd08a	Year of birth of children: 1. child	available	**anonymized**	**anonymized**	**anonymized**
alcd08b	Year of birth of children: 2. child	available	**anonymized**	**anonymized**	**anonymized**
alcd08c	Year of birth of children: 3. child	available	**anonymized**	**anonymized**	**anonymized**
alcd08d	Year of birth of children: 4. child	available	**anonymized**	**anonymized**	**anonymized**
alcd08e	Year of birth of children: 5. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
alcd08f	Year of birth of children: 6. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
alcd08g	Year of birth of children: 7. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
alcd08h	Year of birth of children: 8. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
alcd08i	Year of birth of children: 9. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
alcd08j	Year of birth of children: 10. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
alcd08_g1	Age of the youngest child in the year of the survey	available	available	**anonymized**	**anonymized**
ahea01	General state of health	available	available	**anonymized**	**anonymized**
ahea02	Number of days: physically not feeling well in the last four weeks	available	available	**anonymized**	**anonymized**
ahea03	Number of days: mentally not feeling well in the last four weeks	available	available	**anonymized**	**anonymized**
ahea04	Number of days: everyday activities restricted in the last four weeks	available	available	**anonymized**	**anonymized**
ahea05	Officially recognized disability	available	available	**anonymized**	**anonymized**
ahea07	Year of recognition of disability	available	available	**anonymized**	**anonymized**
ahea08	Current degree of disability	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ahea08_g1	Current degree of disability (aggregated)	available	available	**anonymized**	**anonymized**
ahea09	Programs for people with disabilities at the university	available	available	**anonymized**	**anonymized**

ahea10	Participation in programs for people with disabilities	available	available	**anonymized**	**anonymized**
adem01	Gender	available	available	**anonymized**	**anonymized**
adem01_g1	Gender (aggregated)	available	available	available	available
adem02	Year of birth	**anonymized**	**anonymized**	**anonymized**	**anonymized**
adem02_g1	Year of birth (aggregated, 29 categories)	available	available	**anonymized**	**anonymized**
adem02_g2	Year of birth (aggregated, 9 categories)	available	available	available	available
adem04_g1	Country of birth	available	**anonymized**	**anonymized**	**anonymized**
adem04_g2	Country of birth (NEPS-regions)	available	available	**anonymized**	**anonymized**
adem04_g3	Country of birth (world regions)	available	available	available	available
adem05a_g1	Country of residence on 30 June 1990 (FRG/GDR/other country)	available	available	**anonymized**	**anonymized**
adem05b_g1	Country of residence on 30 June 1990	available	**anonymized**	**anonymized**	**anonymized**
adem05b_g2	Country of residence on 30 June 1990 (NEPS-regions)	available	available	**anonymized**	**anonymized**
adem05b_g3	Country of residence on 30 June 1990 (world regions)	available	available	available	available
adem06	Year of immigration to Germany	available	available	**anonymized**	**anonymized**
adem06_g1	Year of immigration to Germany (aggregated)	available	available	available	available
adem09	German citizenship since (year)	available	available	**anonymized**	**anonymized**
adem09_g1	German citizenship since (year) (aggregated)	available	available	available	available
adem10_g1	1st citizenship	available	**anonymized**	**anonymized**	**anonymized**
adem10_g4	1st citizenship (NEPS-regions)	available	available	**anonymized**	**anonymized**
adem10_g2	2nd citizenship	available	**anonymized**	**anonymized**	**anonymized**
adem10_g5	2nd citizenship (NEPS-regions)	available	available	**anonymized**	**anonymized**
adem10_g3	3rd citizenship	available	**anonymized**	**anonymized**	**anonymized**
adem10_g6	3rd citizenship (NEPS-regions)	available	available	**anonymized**	**anonymized**
adem10_g7	Citizenship: Europe	available	available	available	available
adem10_g8	Citizenship: Africa	available	available	available	available
adem10_g9	Citizenship: America	available	available	available	available
adem10_g10	Citizenship: Asia	available	available	available	available
adem10_g11	Citizenship: Australia, Oceania, Antarctic	available	available	available	available
apar02a_g1	Country of birth of parents: father	available	**anonymized**	**anonymized**	**anonymized**
apar02a_g2	Country of birth of parents: father (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar02a_g3	Country of birth of parents: father (world regions)	available	available	available	available
apar02b_g1	Country of birth of parents: mother	available	**anonymized**	**anonymized**	**anonymized**
apar02b_g2	Country of birth of parents: mother (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar02b_g3	Country of birth of parents: mother (world regions)	available	available	available	available
apar05a_g1	1st citizenship father	available	**anonymized**	**anonymized**	**anonymized**
apar05a_g4	1st citizenship father (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar05a_g2	2nd citizenship father	available	**anonymized**	**anonymized**	**anonymized**
apar05a_g5	2nd citizenship father (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar05a_g3	3rd citizenship father	available	**anonymized**	**anonymized**	**anonymized**
apar05a_g6	3rd citizenship father (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar05a_g7	Citizenship father: Europe	available	available	available	available
apar05a_g8	Citizenship father: Africa	available	available	available	available
apar05a_g9	Citizenship father: America	available	available	available	available
apar05a_g10	Citizenship father: Asia	available	available	available	available
apar05a_g11	Citizenship father: Australia, Oceania, Antarctic	available	available	available	available
apar05b_g1	1st citizenship mother	available	**anonymized**	**anonymized**	**anonymized**
apar05b_g4	1st citizenship mother (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar05b_g2	2nd citizenship mother	available	**anonymized**	**anonymized**	**anonymized**

apar05b_g5	2nd citizenship mother (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar05b_g3	3rd citizenship mother	available	**anonymized**	**anonymized**	**anonymized**
apar05b_g6	3rd citizenship mother (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar05b_g7	Citizenship mother: Europe	available	available	available	available
apar05b_g8	Citizenship mother: Africa	available	available	available	available
apar05b_g9	Citizenship mother: America	available	available	available	available
apar05b_g10	Citizenship mother: Asia	available	available	available	available
apar05b_g11	Citizenship mother: Australia, Oceania, Antarctic	available	available	available	available
apar06a_g1	Country of residence of parents on 30 June 1990: father (FRG/GDR/other c.)	available	available	**anonymized**	**anonymized**
apar07a_g1	Country of residence of parents on 30 June 1990: father	available	**anonymized**	**anonymized**	**anonymized**
apar07a_g2	Country of residence of parents on 30 June 1990: father (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar07a_g3	Country of residence of parents on 30 June 1990: father (world regions)	available	available	available	available
apar06b_g1	Country of residence of parents on 30 June 1990: mother (FRG/GDR/other c.)	available	available	**anonymized**	**anonymized**
apar07b_g1	Country of residence of parents on 30 June 1990: mother	available	**anonymized**	**anonymized**	**anonymized**
apar07b_g2	Country of residence of parents on 30 June 1990: mother (NEPS-regions)	available	available	**anonymized**	**anonymized**
apar07b_g3	Country of residence of parents on 30 June 1990: mother (world regions)	available	available	available	available
apar08a	Parents' highest school-leaving certificate: father	available	available	**anonymized**	**anonymized**
apar08a_g1	Parents' highest school-leaving certificate: father (aggregated)	available	available	available	available
apar08b	Parents' highest school-leaving certificate: mother	available	available	**anonymized**	**anonymized**
apar08b_g1	Parents' highest school-leaving certificate: mother (aggregated)	available	available	available	available
apar10a	Parents' highest level of vocational training: father	available	available	**anonymized**	**anonymized**
apar10a_g1	Parents' highest level of vocational training: father (aggregated)	available	available	available	available
apar10b	Parents' highest level of vocational training: mother	available	available	**anonymized**	**anonymized**
apar10b_g1	Parents' highest level of vocational trainingt: mother (aggregated)	available	available	available	available
apar11a	Parents' professional status: father	available	available	**anonymized**	**anonymized**
apar11a_g1	Parents' professional status: father (aggregated)	available	available	available	available
apar11b	Parents' professional status: mother	available	available	**anonymized**	**anonymized**
apar11b_g1	Parents' professional status: mother (aggregated)	available	available	available	available
aedb01b_g1	University entrance qualification: country 1	available	**anonymized**	**anonymized**	**anonymized**
aedb01b_g2	University entrance qualification: country 2	available	**anonymized**	**anonymized**	**anonymized**
aedb01b_g3	University entrance qualification: country 3	available	**anonymized**	**anonymized**	**anonymized**
aedb01b_g4	University entrance qualification: Europe	available	available	available	available
aedb01b_g5	University entrance qualification: Africa	available	available	available	available

aedb01b_g6	University entrance qualification: America	available	available	available	available
aedb01b_g7	University entrance qualification: Asia	available	available	available	available
aedb01b_g8	University entrance qualification: Australia, Oceania, Antarctic	available	available	available	available
aedb02	Year and final grade of univ. entr. qual.: Year	**anonymized**	**anonymized**	**anonymized**	**anonymized**
aedb02_g1	Year and final grade of univ. entr. qual.: Year (aggregated, 28 cat.)	available	available	**anonymized**	**anonymized**
aedb02_g2	Year and final grade of univ. entr. qual.: Year (aggregated, 8 cat.)	available	available	available	available
aedb03	Year and final grade of univ. entr. qual.: Final grade	available	available	**anonymized**	**anonymized**
aedb04a_g1	University degree giving access to a doctorate: area of study (destatis)	available	available	**anonymized**	**anonymized**
aedb04a_g2	University degree giving access to a doctorate: subject group (destatis)	available	available	available	available
aedb04b_g1	University degree giving access to a doctorate: university (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
aedb04b_g2	University degree giving access to a doctorate: federal state of university	available	**anonymized**	**anonymized**	**anonymized**
aedb04b_g5	University degree giving access to a doctorate: fed. state of university (agg.)	available	available	available	**anonymized**
aedb04b_g3	University degree giving access to a doctorate: region of university	available	available	available	available
aedb04b_g4	University degree giving access to a doctorate: type of university	**anonymized**	**anonymized**	**anonymized**	**anonymized**
aedb04b_g6	University degree giving access to a doctorate: type of university (agg.)	available	**anonymized**	**anonymized**	**anonymized**
aedb04d_g1	University degree giving access to a doctorate: country (destatis)	available	**anonymized**	**anonymized**	**anonymized**
aedb04d_g2	University degree giving access to a doctorate: country (destatis) (worldregion)	available	available	available	available
aedb04h	University degree giving access to a doctorate: final year	**anonymized**	**anonymized**	**anonymized**	**anonymized**
aedb04h_g1	University degree giving access to a doctorate: final year (agg., 14 cat.)	available	available	**anonymized**	**anonymized**
aedb04h_g2	University degree giving access to a doctorate: final year (agg., 5 cat.)	available	available	available	available
ainf01	Information page with transition to add-on 1	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ainf02	Information page with transition to add-on 2	**anonymized**	**anonymized**	**anonymized**	**anonymized**

Table 23:   Wave 2: "Available" vs. "Anonymized" per variable and access way

variable name	variable label	on-site-SUF	remote-desktop-SUF	download-SUF	download-CUF (25% subsample)
blanguage	Language of the questionnaire	available	available	**anonymized**	**anonymized**
bdid05e	Reasons for dropout thoughts: health problems	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdbi08a	Date of dropout of the doctorate (month)	available	available	**anonymized**	**anonymized**
bdbi09	Date of dropout of the doctorate (request: quarter)	available	available	**anonymized**	**anonymized**
bdbi06a	Date of completion of the doctorate (month)	available	available	**anonymized**	**anonymized**

bdbi16a	Doctorate grade	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdbi16a_g1	Doctorate grade (aggregated, 6 cat.)	available	available	**anonymized**	**anonymized**
bdbi16a_g2	Doctorate grade (aggregated, 5 cat.)	available	available	available	available
bdbi10a_g1	University of doctorate (Destatis key)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdbi15_g0	Doctoral subject/discipline: subject (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdbi15_g1	Doctoral subject/discipline: area of study (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdbi15_g2	Doctoral subject/discipline: subject group (destatis)	available	available	available	available
bdbi15_g3	Doctoral subject/discipline: subject group (DZHW)	available	available	**anonymized**	**anonymized**
bdsv05a	(Main-) supervisor: University	available	available	**anonymized**	**anonymized**
bdsv06	(Main-) supervisor: gender	available	available	**anonymized**	**anonymized**
bdsv07	Formal supervision status of supervisor(s): main supervisor	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdsv07_g1	Formal supervision status of supervisor(s): main supervisor (agg.)	available	available	**anonymized**	**anonymized**
bdsv08a	Position(s) of supervisor(s): Main supervisor	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdsv13	(Main-)supervisor likeable	available	available	**anonymized**	**anonymized**
bdcd21a	Ideal doctorate fundings: German Research Foundation (DFG)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21b	Ideal doctorate fundings: German Academic Scholarship Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21c	Ideal doctorate fundings: Friedrich Ebert Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21d	Ideal doctorate fundings: Friedrich Naumann Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21e	Ideal doctorate fundings: Hanns Seidel Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21f	Ideal doctorate fundings: Hans Böckler Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21g	Ideal doctorate fundings: Heinrich Böll Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21h	Ideal doctorate fundings: Konrad Adenauer Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21i	Ideal doctorate fundings: Rosa Luxemburg Foundation	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21j	Ideal doctorate fundings: Foundation of German Business	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21_g1	Ideal doctorate fundings: DFG/foundations	available	available	**anonymized**	**anonymized**
bdcd21k	Ideal doctorate fundings: University	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21l	Ideal doctorate fundings: University of applied sciences	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21m	Ideal doctorate fundings: non-university research institution	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21n	Ideal doctorate fundings: other	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bdcd21_g2	Ideal doctorate fundings: Uni/UAS/non-univ. research institution/other	available	available	**anonymized**	**anonymized**
bdcd21p	Ideal doctorate fundings: none of the mentioned institutions	available	available	**anonymized**	**anonymized**
bfin03a	Scholarship provider	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfin03a_g1	Scholarship provider (aggregated)	available	available	**anonymized**	**anonymized**
blcd13a	Current situation	available	available	**anonymized**	**anonymized**
blcd13a_g1	Current situation (aggregated)	available	available	available	available
bfin07b	Start scholarship: month	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfin07c	Start scholarship: year	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp61a	Current occupation: beginning - month	available	available	**anonymized**	**anonymized**
bemp61a_g1	Current occupation: beginning - month (agg.)	available	available	available	available
bemp62a	Last occupation: end - month	available	available	**anonymized**	**anonymized**

bemp62a_g1	Last occupation: end - month (agg.)	available	available	available	available
bemp81a_g2	Current job: monthly gross income (Correction bemp81a+b)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp81b_g1	Current job: currency (Euro+foreign currency)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp81b_g2	Current job: foreign currency exchange rate to Euro 01.05.2020	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp81_g1	Current job: monthly gross income in Euro (agg., Top-Coding)	available	available	**anonymized**	**anonymized**
bemp81_g2	Current job: monthly gross income in Euro (agg., 20 categories)	available	available	available	**anonymized**
bemp81_g3	Current job: monthly gross income in Euro (agg., 4 categories)	available	available	available	available
bemp82	Current job: grouping - monthly gross income	available	available	available	**anonymized**
bemp84a	Current job: company size	available	**anonymized**	**anonymized**	**anonymized**
bemp84a_g1	Current job: company size (aggregated, 12 categories)	available	available	**anonymized**	**anonymized**
bemp84a_g2	Current job: company size (aggregated, 6 categories)	available	available	available	available
bemp85c	Current job: management function - number of subordinates (open response)	available	**anonymized**	**anonymized**	**anonymized**
bemp85c_g1	Current job: management function - number of subordinates (agg., 12 cat.)	available	available	**anonymized**	**anonymized**
bemp85c_g2	Current job: management function - number of subordinates (agg., 6 cat.)	available	available	available	available
bemp90a	Current job: sector	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp90a_g1	Current job: sector (aggregated)	available	available	**anonymized**	**anonymized**
bemp91a	Organisation: higher education institution	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp91a_g1	Organisation: higher education institution (aggregated)	available	available	**anonymized**	**anonymized**
bemp92a	Research organisation - type	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp92a_g1	Research organisation - type (aggregated)	available	available	**anonymized**	**anonymized**
bemp93a	Research organisation - name	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp94a	Scientific staff category	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bemp94a_g1	Scientific staff category (aggregated)	available	**anonymized**	**anonymized**	**anonymized**
bemp95a	Current job: occupational status	available	available	**anonymized**	**anonymized**
bemp95a_g1	Current job: occupational status (aggregated)	available	available	available	available
bemp96	Current job: occupation status - precisely	available	available	**anonymized**	**anonymized**
blcd07_g1	Number of children	**anonymized**	**anonymized**	**anonymized**	**anonymized**
blcd07_g2	Number of children (aggregated)	available	available	available	available
blcd08a	Year of birth of children: 1. child	available	**anonymized**	**anonymized**	**anonymized**
blcd08b	Year of birth of children: 2. child	available	**anonymized**	**anonymized**	**anonymized**
blcd08c	Year of birth of children: 3. child	available	**anonymized**	**anonymized**	**anonymized**
blcd08d	Year of birth of children: 4. child	available	**anonymized**	**anonymized**	**anonymized**
blcd08e	Year of birth of children: 5. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
blcd08f	Year of birth of children: 6. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
blcd08g	Year of birth of children: 7. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
blcd08h	Year of birth of children: 8. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
blcd08i	Year of birth of children: 9. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
blcd08j	Year of birth of children: 10. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
blcd08_g1	Age of the youngest child in the year of the survey	available	available	**anonymized**	**anonymized**
bhea01	General state of health	available	available	**anonymized**	**anonymized**
bhea02	Number of days: physically not feeling well in the last four weeks	available	available	**anonymized**	**anonymized**
bhea03_g1	Number of days: mentally not feeling well in the last four weeks	available	available	**anonymized**	**anonymized**

bhea04_g1	Number of days: everyday activities restricted in the last four weeks	available	available	**anonymized**	**anonymized**
bpop06b	In last 12 months: worked in political party or group	available	available	**anonymized**	**anonymized**
bfed01a	Type of practical training	available	**anonymized**	**anonymized**	**anonymized**
bfed01a_g1	Type of practical training (aggregated)	available	available	available	available
bfed02a	Professional training: medical specialist	available	available	**anonymized**	**anonymized**
bfed02b	Professional training: specialist dentist	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02c	Professional training: psychotherapist	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02d	Professional training: specialist veterinarian	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02e	Professional training: specialist lawyer	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02f	Professional training: patent attorney	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02g	Professional training: certified accountant	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02h	Professional training: chartered tax accountant	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02i	Professional training: actuary	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02j	Professional training: notary	**anonymized**	**anonymized**	**anonymized**	**anonymized**
bfed02k	Professional training: Other professional training, namely for:	**anonymized**	**anonymized**	**anonymized**	**anonymized**

Table 24:   Wave 3: "Available" vs. "Anonymized" per variable and access way

variable name	variable label	on-site-SUF	remote-desktop-SUF	download-SUF	download-CUF (25% subsample)
clanguage	Language of the questionnaire	available	available	**anonymized**	**anonymized**
cdsv05a	(Main-) supervisor: university	available	available	**anonymized**	**anonymized**
cdsv06	(Main-) supervisor: gender	available	available	**anonymized**	**anonymized**
cdsv07	(Main-) supervisor: formal supervision status	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cdsv07_g1	(Main-) supervisor: formal supervision status (agg.)	available	available	**anonymized**	**anonymized**
cdsv08a	(Main-) supervisor: position	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cdsv13	(Main-) supervisor likeable	available	available	**anonymized**	**anonymized**
cfin03a	Scholarship provider	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cfin03a_g1	Scholarship provider (aggregated)	available	available	**anonymized**	**anonymized**
cdid05e	Reasons for dropout thoughts: health problems	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cdid07e	Reasons for dropout thoughts: health problems	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cdbi08a	Date of dropout of the doctorate (month)	available	available	**anonymized**	**anonymized**
cdbi10a_g1	University of doctorate (Destatis key)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cdbi15_g0	Doctoral subject/discipline: subject (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cdbi15_g1	Doctoral subject/discipline: area of study (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cdbi15_g2	Doctoral subject/discipline: subject group (destatis)	available	available	available	available
cdbi15_g3	Doctoral subject/discipline: subject group (DZHW)	available	available	**anonymized**	**anonymized**
cdbi06a	Date of completion of the doctorate (month)	available	available	**anonymized**	**anonymized**
cdbi16a	Doctorate grade	**anonymized**	**anonymized**	**anonymized**	**anonymized**

cdbi16a_g1	Doctorate grade (aggregated, 6 cat.)	available	available	**anonymized**	**anonymized**
cdbi16a_g2	Doctorate grade (aggregated, 5 cat.)	available	available	available	available
cdcd39a	Receipt of the doctoral certificate: month	available	available	**anonymized**	**anonymized**
cdcd39a_g1	Receipt of the doctoral certificate: month (aggregated)	available	available	available	available
cdsv24a_g1	Number of formal reviewers of the dissertation: univ. of registration	available	available	**anonymized**	**anonymized**
cdsv24a_g2	Number of formal reviewers of the dissertation: univ. of registration (agg.)	available	available	available	available
cdsv24b_g1	Number of formal reviewers of the dissertation: other university	available	available	**anonymized**	**anonymized**
cdsv24b_g2	Number of formal reviewers of the dissertation: other university (agg.)	available	available	available	available
cdsv24c_g1	Number of formal reviewers of the dissertation: other univ. of app. sci.	available	available	**anonymized**	**anonymized**
cdsv24c_g2	Number of formal reviewers of the dissertation: other univ. of app. sci. (agg.)	available	available	available	available
cdsv24d	Number of formal reviewers of the dissertation: (non-univ.) res. inst.	available	available	**anonymized**	**anonymized**
cdsv24d_g1	Number of formal reviewers of the dissertation: (non-univ.) res. inst. (agg.)	available	available	available	available
cdsv24e	Number of formal reviewers of the dissertation: other institution	available	available	**anonymized**	**anonymized**
cdsv24e_g1	Number of formal reviewers of the dissertation: other institution (agg.)	available	available	available	available
cdsv24f	Number of formal reviewers of the dissertation: not affiliated with inst.	available	available	**anonymized**	**anonymized**
cdsv24f_g1	Number of formal reviewers of the dissertation: not affiliated with inst. (agg.)	available	available	available	available
cdsv16	Assessment of the reputation of the main reviewer in the scientific community	available	available	**anonymized**	**anonymized**
cdsv21	Assessment of academic reputation of inst. in scient. comm. of subject area	available	available	**anonymized**	**anonymized**
cdtc08a	Number scient. pub. since start of doc.: papers journals with peer-review	available	available	**anonymized**	**anonymized**
cdtc08a_g1	Number scient. pub. since start of doc.: papers journals with peer-review (agg.)	available	available	available	available
cdtc08b	Number scient. pub. since start of doc.: papers journals without peer-rev.	available	available	**anonymized**	**anonymized**
cdtc08b_g1	Number scient. pub. since start of doc.: papers journals without peer-rev (agg.)	available	available	available	available
cdtc08c	Number scient. pub. since start of doc.: papers in edited volumes	available	available	**anonymized**	**anonymized**
cdtc08c_g1	Number scient. pub. since start of doc.: papers in edited volumes (agg.)	available	available	available	available
cdtc08d	Number scient. pub. since start of doc.: scientific books	available	available	**anonymized**	**anonymized**
cdtc08d_g1	Number scient. pub. since start of doc.: scientific books (agg.)	available	available	available	available

cdtc08e	Number scient. pub. since start of doc.: edited volumes or special issues	available	available	**anonymized**	**anonymized**
cdtc08e_g1	Number scient. pub. since start of doc.: edited volumes or special issues (agg.)	available	available	available	available
cdtc08f_g1	Number scient. pub. since start of doc.: other scientific publications	available	available	**anonymized**	**anonymized**
cdtc08f_g2	Number scient. pub. since start of doc.: other scientific publications (agg.)	available	available	available	available
cdtc17a	Number res.-based cont. since start of doc.: practitioner/tech. journals	available	available	**anonymized**	**anonymized**
cdtc17a_g1	Number res.-based cont. since start of doc.: practitioner/tech. journals (agg.)	available	available	available	available
cdtc17b	Number res.-based cont. since start of doc.: art. in daily/weekly newsp.	available	available	**anonymized**	**anonymized**
cdtc17b_g1	Number res.-based cont. since start of doc.: art. in daily/weekly newsp. (agg.)	available	available	available	available
cdtc17c	Number res.-based cont. since start of doc.: online media	available	available	**anonymized**	**anonymized**
cdtc17c_g1	Number res.-based cont. since start of doc.: online media (agg.)	available	available	available	available
cdtc17d	Number res.-based cont. since start of doc.: cont. to radio/TV programmes	available	available	**anonymized**	**anonymized**
cdtc17d_g1	Number res.-based cont. since start of doc.: cont. to radio/TV programmes (agg.)	available	available	available	available
cdtc17e	Number res.-based cont. since start of doc.: press releases	available	available	**anonymized**	**anonymized**
cdtc17e_g1	Number res.-based cont. since start of doc.: press releases (agg.)	available	available	available	available
cdtc17f_g1	Number res.-based cont. since start of doc.: cont. to other media	available	available	**anonymized**	**anonymized**
cdtc17f_g2	Number res.-based cont. since start of doc.: cont. to other media (agg.)	available	available	available	available
cdtc11b_g1	Academic conferences: own giving talks: open response	available	available	**anonymized**	**anonymized**
cdtc11b_g2	Academic conferences: own giving talks: open response (agg.)	available	available	available	available
cdtc12b_g1	Academic conferences: own presented posters: open response	available	available	**anonymized**	**anonymized**
cdtc12b_g2	Academic conferences: own presented posters: open response (agg.)	available	available	available	available
cdtc18_g1	Number of articles reviewed s. beginning of the doctorate	available	available	**anonymized**	**anonymized**
cdtc18_g2	Number of articles reviewed s. beginning of the doctorate (agg.)	available	available	available	available
cdtc19b	Type applic. submitted s. start of doc.: patent/utility model/trademark/design	available	available	**anonymized**	**anonymized**
cdtc20b	Number approved applications s. start of doctorate: research funding	available	available	**anonymized**	**anonymized**
cdtc21a	Approval applications s. start of doc.: patent/utility model/trademark/design	available	available	**anonymized**	**anonymized**
cdtc21b	Number approved applic. s. start of doc.: patent/utility model/trademark/design	available	available	**anonymized**	**anonymized**
cabr07ab_g1	1. Stay abroad: country	available	available	**anonymized**	**anonymized**
cabr07ab_g2	1. Stay abroad: country (world regions)	available	available	available	available

cabr07ad	1. Stay abroad: beginning (month)	available	available	**anonymized**	**anonymized**
cabr07ad_g1	1. Stay abroad: beginning (month) (agg.)	available	available	available	available
cabr07bb_g1	2. Stay abroad: country	available	available	**anonymized**	**anonymized**
cabr07bb_g2	2. Stay abroad: country (world regions)	available	available	available	available
cabr07bd	2. Stay abroad: beginning (month)	available	available	**anonymized**	**anonymized**
cabr07bd_g1	2. Stay abroad: beginning (month) (agg.)	available	available	available	available
cabr07cb_g1	3. Stay abroad: country	available	available	**anonymized**	**anonymized**
cabr07cb_g2	3. Stay abroad: country (world regions)	available	available	available	available
cabr07cd	3. Stay abroad: beginning (month)	available	available	**anonymized**	**anonymized**
cabr07cd_g1	3. Stay abroad: beginning (month) (agg.)	available	available	available	available
cabr07db_g1	4. Stay abroad: country	available	available	**anonymized**	**anonymized**
cabr07db_g2	4. Stay abroad: country (world regions)	available	available	available	available
cabr07dd	4. Stay abroad: beginning (month)	available	available	**anonymized**	**anonymized**
cabr07dd_g1	4. Stay abroad: beginning (month) (agg.)	available	available	available	available
cabr07eb_g1	5. Stay abroad: country	available	available	**anonymized**	**anonymized**
cabr07eb_g2	5. Stay abroad: country (world regions)	available	available	available	available
cabr07ed	5. Stay abroad: beginning (month)	available	available	**anonymized**	**anonymized**
cabr07ed_g1	5. Stay abroad: beginning (month) (agg.)	available	available	available	available
cabr07fb_g1	6. Stay abroad: country	available	available	**anonymized**	**anonymized**
cabr07fb_g2	6. Stay abroad: country (world regions)	available	available	available	available
cabr07fd	6. Stay abroad: beginning (month)	available	available	**anonymized**	**anonymized**
cabr07fd_g1	6. Stay abroad: beginning (month) (agg.)	available	available	available	available
clcd15a	Employment status: grant/scholarship	available	available	**anonymized**	**anonymized**
clcd15b	Employment status: in practical training	available	available	**anonymized**	**anonymized**
clcd15f	Employment status: housewife/house husband	available	available	**anonymized**	**anonymized**
clcd15g	Employment status: other	available	available	**anonymized**	**anonymized**
clcd15_g1	Employm. status: other (incl. scholarsh., pract. train., housewife/househusband)	available	available	available	available
cemp146	Current job: occupational status	available	available	**anonymized**	**anonymized**
cemp146_g1	Current job: occupational status (aggregated)	available	available	available	available
cemp118a	Since when current/last job: month	available	available	**anonymized**	**anonymized**
cemp118a_g1	Since when current/last job: month (agg.)	available	available	available	available
cemp119a	End of last job: month	available	available	**anonymized**	**anonymized**
cemp119a_g1	End of last job: month (agg.)	available	available	available	available
cemp120a	Current/last occupation: beginning - month	available	available	**anonymized**	**anonymized**
cemp120a_g1	Current/last occupation: beginning - month (agg.)	available	available	available	available
cemp121a	Last occupation: end - month	available	available	**anonymized**	**anonymized**
cemp121a_g1	Last occupation: end - month (agg.)	available	available	available	available
cemp133a_g1	Current job: monthly gross income	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cemp133b_g1	Current job: currency (Euro+foreign currency)	**anonymized**	**anonymized**	**anonymized**	**anonymized**

cemp133b_g2	Current job: foreign currency exchange rate to Euro 05.2021	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cemp133_g1	Current job: monthly gross income in Euro (agg., Top-Coding)	available	available	**anonymized**	**anonymized**
cemp133_g2	Current job: monthly gross income in Euro (agg., 20 categories)	available	available	available	**anonymized**
cemp133_g3	Current job: monthly gross income in Euro (agg., 4 categories)	available	available	available	available
cemp134	Current job: grouping - monthly gross income	available	available	available	**anonymized**
cemp136a_g1	Current/last place of work: first three digits of postal code	available	**anonymized**	**anonymized**	**anonymized**
cemp136a_g2	Current/last place of work: first two digits of postal code	available	available	**anonymized**	**anonymized**
cemp136c_g1	Current/last place of work: country (abroad)	available	available	**anonymized**	**anonymized**
cemp136c_g2	Current/last place of work: country (abroad) (world regions)	available	available	available	available
cemp135a	Current job: company size	available	**anonymized**	**anonymized**	**anonymized**
cemp135a_g1	Current job: company size (aggregated, 12 categories)	available	available	**anonymized**	**anonymized**
cemp135a_g2	Current job: company size (aggregated, 6 categories)	available	available	available	available
cemp137c_g1	Current/last job management function: number of subordinates	available	**anonymized**	**anonymized**	**anonymized**
cemp137c_g2	Current/last job management function: number of subordinates (agg., 12 cat.)	available	available	**anonymized**	**anonymized**
cemp137c_g3	Current/last job management function: number of subordinates (agg., 6 cat.)	available	available	available	available
cemp141a	Current job: sector	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cemp141a_g1	Current job: sector (aggregated)	available	available	**anonymized**	**anonymized**
cemp142a	Organisation: higher education institution	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cemp142a_g1	Organisation: higher education institution (aggregated)	available	available	**anonymized**	**anonymized**
cemp143a	Research organisation - type	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cemp143a_g1	Research organisation - type (aggregated)	available	available	**anonymized**	**anonymized**
cemp144a	Research organisation - name	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cemp145a	Scientific staff category	**anonymized**	**anonymized**	**anonymized**	**anonymized**
cemp145a_g1	Scientific staff category (aggregated)	available	**anonymized**	**anonymized**	**anonymized**
clcd07	Number of children	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd07_g1	Number of children (aggregated)	available	available	available	available
clcd08aa_g1	Month of birth of children: 1. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08ab	Year of birth of children: 1. child	available	**anonymized**	**anonymized**	**anonymized**
clcd08ba_g1	Month of birth of children: 2. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08bb	Year of birth of children: 2. child	available	**anonymized**	**anonymized**	**anonymized**
clcd08ca_g1	Month of birth of children: 3. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08cb	Year of birth of children: 3. child	available	**anonymized**	**anonymized**	**anonymized**
clcd08da_g1	Month of birth of children: 4. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08db	Year of birth of children: 4. child	available	**anonymized**	**anonymized**	**anonymized**
clcd08ea	Month of birth of children: 5. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08eb	Year of birth of children: 5. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08fa	Month of birth of children: 6. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08fb	Year of birth of children: 6. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08ga	Month of birth of children: 7. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08gb	Year of birth of children: 7. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08ha	Month of birth of children: 8. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**

clcd08hb	Year of birth of children: 8. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08ia	Month of birth of children: 9. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08ib	Year of birth of children: 9. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08ja	Month of birth of children: 10. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08jb	Year of birth of children: 10. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
clcd08_g1	Age of the youngest child in the year of the survey	available	available	**anonymized**	**anonymized**
clcd16a_g1	Current place of main residence: first three digits of postal code	available	**anonymized**	**anonymized**	**anonymized**
clcd16a_g2	Current place of main residence: first two digits of postal code	available	available	**anonymized**	**anonymized**
clcd16c_g1	Current place of main residence: country (abroad)	available	available	**anonymized**	**anonymized**
clcd16c_g2	Current place of main residence: country (abroad) (world regions)	available	available	available	available
chea01	General state of health	available	available	**anonymized**	**anonymized**
chea11_g1	Number of days: physically not feeling well in the last four weeks	available	available	**anonymized**	**anonymized**
chea12	Number of days: mentally not feeling well in the last four weeks	available	available	**anonymized**	**anonymized**
chea13_g1	Number of days: everyday activities restricted in the last four weeks	available	available	**anonymized**	**anonymized**
ckom02g	Use of online networks/channels: own blog	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ckom02h	Use of online networks/channels: own podcast	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ckom02i	Use of online networks/channels: own webpage	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ckom02j	Use of online networks/channels: other social media	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ckom02_g1	Use of online networks/channels: other social media (incl. blog/podcast/webpage)	available	available	available	available

Table 25:	Wave 4: "Available" vs. "Anonymized" per variable and access way

variable name	variable label	on-site-SUF	remote-desktop-SUF	download-SUF	download-CUF (25% subsample)
dlanguage	Language of the questionnaire	available	available	**anonymized**	**anonymized**
ddsv05a	(Main-) supervisor: university	available	available	**anonymized**	**anonymized**
ddsv06	(Main-) supervisor: gender	available	available	**anonymized**	**anonymized**
ddsv07	(Main-) supervisor: formal supervision status	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddsv07_g1	(Main-) supervisor: formal supervision status (agg.)	available	available	**anonymized**	**anonymized**
ddsv08a	(Main-) supervisor: position	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddsv13	(Main-) supervisor likeable	available	available	**anonymized**	**anonymized**
ddcd05a	Type of program: research training group (DFG)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddcd05b	Type of program: integrated research training group (within a SFB)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddcd05c	Type of program: graduate school of the excellence initiative (DFG)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddcd05d	Type of program: without DFG funding	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddcd05e	Type of program: with DFG funding	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddcd05f	Type of program: International Max Planck Research School (IMPRS)	**anonymized**	**anonymized**	**anonymized**	**anonymized**

ddcd05g	Type of program: program of the Helmholtz Association	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddcd05h	Type of program: Leibniz Graduate School	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddcd05i	Type of program: doctoral course of studies	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddcd05j	Type of program: other program	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dfin19a	Funding: institution	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dfin19a_g1	Funding: institution (aggregated)	available	available	**anonymized**	**anonymized**
ddid05e	Reasons for dropout thoughts: health problems	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddid07e	Reasons for dropout thoughts: health problems	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddbi08a	Date of dropout of the doctorate (month)	available	available	**anonymized**	**anonymized**
ddbi10a_g1	University of doctorate (Destatis key)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddbi15_g0	Doctoral subject/discipline: subject (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddbi15_g1	Doctoral subject/discipline: area of study (destatis)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddbi15_g2	Doctoral subject/discipline: subject group (destatis)	available	available	available	available
ddbi15_g3	Doctoral subject/discipline: subject group (DZHW)	available	available	**anonymized**	**anonymized**
ddbi06a	Date of completion of the doctorate (month)	available	available	**anonymized**	**anonymized**
ddbi16a	Doctorate grade	**anonymized**	**anonymized**	**anonymized**	**anonymized**
ddbi16a_g1	Doctorate grade (aggregated, 6 cat.)	available	available	**anonymized**	**anonymized**
ddbi16a_g2	Doctorate grade (aggregated, 5 cat.)	available	available	available	available
ddcd39a	Receipt of the doctoral certificate: month	available	available	**anonymized**	**anonymized**
ddcd39a_g1	Receipt of the doctoral certificate: month (aggregated)	available	available	available	available
ddsv24a	Number of formal reviewers of the dissertation: univ. of registration	available	available	**anonymized**	**anonymized**
ddsv24a_g1	Number of formal reviewers of the dissertation: univ. of registration (agg.)	available	available	available	available
ddsv24b	Number of formal reviewers of the dissertation: other university	available	available	**anonymized**	**anonymized**
ddsv24b_g1	Number of formal reviewers of the dissertation: other university (agg.)	available	available	available	available
ddsv24c	Number of formal reviewers of the dissertation: other univ. of app. sci.	available	available	**anonymized**	**anonymized**
ddsv24c_g1	Number of formal reviewers of the dissertation: other univ. of app. sci. (agg.)	available	available	available	available
ddsv24d	Number of formal reviewers of the dissertation: (non-univ.) res. inst.	available	available	**anonymized**	**anonymized**
ddsv24d_g1	Number of formal reviewers of the dissertation: (non-univ.) res. inst. (agg.)	available	available	available	available
ddsv24e	Number of formal reviewers of the dissertation: other institution	available	available	**anonymized**	**anonymized**
ddsv24e_g1	Number of formal reviewers of the dissertation: other institution (agg.)	available	available	available	available
ddsv24f	Number of formal reviewers of the dissertation: not affiliated with inst.	available	available	**anonymized**	**anonymized**
ddsv24f_g1	Number of formal reviewers of the dissertation: not affiliated with inst. (agg.)	available	available	available	available

ddsv16	Assessment of the reputation of the main reviewer in the scientific community	available	available	**anonymized**	**anonymized**
ddsv21	Assessment of academic reputation of inst. in scient. comm. of subject area	available	available	**anonymized**	**anonymized**
ddtc08a	Number scient. pub. since start of doc.: papers journals with peer-review	available	available	**anonymized**	**anonymized**
ddtc08a_g1	Number scient. pub. since start of doc.: papers journals with peer-review (agg.)	available	available	available	available
ddtc08b	Number scient. pub. since start of doc.: papers journals without peer-rev.	available	available	**anonymized**	**anonymized**
ddtc08b_g1	Number scient. pub. since start of doc.: papers journals without peer-rev (agg.)	available	available	available	available
ddtc08c	Number scient. pub. since start of doc.: papers in edited volumes	available	available	**anonymized**	**anonymized**
ddtc08c_g1	Number scient. pub. since start of doc.: papers in edited volumes (agg.)	available	available	available	available
ddtc08d	Number scient. pub. since start of doc.: scientific books	available	available	**anonymized**	**anonymized**
ddtc08d_g1	Number scient. pub. since start of doc.: scientific books (agg.)	available	available	available	available
ddtc08e	Number scient. pub. since start of doc.: edited volumes or special issues	available	available	**anonymized**	**anonymized**
ddtc08e_g1	Number scient. pub. since start of doc.: edited volumes or special issues (agg.)	available	available	available	available
ddtc08f	Number scient. pub. since start of doc.: other scientific publications	available	available	**anonymized**	**anonymized**
ddtc08f_g1	Number scient. pub. since start of doc.: other scientific publications (agg.)	available	available	available	available
ddtc17a	Number res.-based cont. since start of doc.: practitioner/tech. journals	available	available	**anonymized**	**anonymized**
ddtc17a_g1	Number res.-based cont. since start of doc.: practitioner/tech. journals (agg.)	available	available	available	available
ddtc17b	Number res.-based cont. since start of doc.: art. in daily/weekly newsp.	available	available	**anonymized**	**anonymized**
ddtc17b_g1	Number res.-based cont. since start of doc.: art. in daily/weekly newsp. (agg.)	available	available	available	available
ddtc17c	Number res.-based cont. since start of doc.: online media	available	available	**anonymized**	**anonymized**
ddtc17c_g1	Number res.-based cont. since start of doc.: online media (agg.)	available	available	available	available
ddtc17d	Number res.-based cont. since start of doc.: cont. to radio/TV programmes	available	available	**anonymized**	**anonymized**
ddtc17d_g1	Number res.-based cont. since start of doc.: cont. to radio/TV programmes (agg.)	available	available	available	available
ddtc17e	Number res.-based cont. since start of doc.: press releases	available	available	**anonymized**	**anonymized**
ddtc17e_g1	Number res.-based cont. since start of doc.: press releases (agg.)	available	available	available	available
ddtc17f	Number res.-based cont. since start of doc.: cont. to other media	available	available	**anonymized**	**anonymized**
ddtc17f_g1	Number res.-based cont. since start of doc.: cont. to other media (agg.)	available	available	available	available

ddtc11b	Academic conferences: own giving talks: open response	available	available	**anonymized**	**anonymized**
ddtc11b_g1	Academic conferences: own giving talks: open response (agg.)	available	available	available	available
ddtc12b	Academic conferences: own presented posters: open response	available	available	**anonymized**	**anonymized**
ddtc12b_g1	Academic conferences: own presented posters: open response (agg.)	available	available	available	available
ddtc18	Number of articles reviewed s. beginning of the doctorate	available	available	**anonymized**	**anonymized**
ddtc18_g1	Number of articles reviewed s. beginning of the doctorate (agg.)	available	available	available	available
ddtc19b	Type applic. submitted s. start of doc.: patent/utility model/trademark/design	available	available	**anonymized**	**anonymized**
ddtc20b	Number approved applications s. start of doctorate: research funding	available	available	**anonymized**	**anonymized**
ddtc21a	Approval applications s. start of doc.: patent/utility model/trademark/design	available	available	**anonymized**	**anonymized**
ddtc21b	Number approved applic. s. start of doc.: patent/utility model/trademark/design	available	available	**anonymized**	**anonymized**
dabr07ab_g1	1. Stay abroad: country	available	available	**anonymized**	**anonymized**
dabr07ab_g2	1. Stay abroad: country (world regions)	available	available	available	available
dabr07ad	1. Stay abroad: start (month)	available	available	**anonymized**	**anonymized**
dabr07ad_g1	1. Stay abroad: start (month) (agg.)	available	available	available	available
dabr07bb_g1	2. Stay abroad: country	available	available	**anonymized**	**anonymized**
dabr07bb_g2	2. Stay abroad: country (world regions)	available	available	available	available
dabr07bd	2. Stay abroad: start (month)	available	available	**anonymized**	**anonymized**
dabr07bd_g1	2. Stay abroad: start (month) (agg.)	available	available	available	available
dabr07cb_g1	3. Stay abroad: country	available	available	**anonymized**	**anonymized**
dabr07cb_g2	3. Stay abroad: country (world regions)	available	available	available	available
dabr07cd	3. Stay abroad: start (month)	available	available	**anonymized**	**anonymized**
dabr07cd_g1	3. Stay abroad: start (month) (agg.)	available	available	available	available
dabr07db_g1	4. Stay abroad: country	available	available	**anonymized**	**anonymized**
dabr07db_g2	4. Stay abroad: country (world regions)	available	available	available	available
dabr07dd	4. Stay abroad: start (month)	available	available	**anonymized**	**anonymized**
dabr07dd_g1	4. Stay abroad: start (month) (agg.)	available	available	available	available
dabr07eb_g1	5. Stay abroad: country	available	available	**anonymized**	**anonymized**
dabr07eb_g2	5. Stay abroad: country (world regions)	available	available	available	available
dabr07ed	5. Stay abroad: start (month)	available	available	**anonymized**	**anonymized**
dabr07ed_g1	5. Stay abroad: start (month) (agg.)	available	available	available	available
dabr07fb_g1	6. Stay abroad: country	available	available	**anonymized**	**anonymized**
dabr07fb_g2	6. Stay abroad: country (world regions)	available	available	available	available
dabr07fd	6. Stay abroad: start (month)	available	available	**anonymized**	**anonymized**
dabr07fd_g1	6. Stay abroad: start (month) (agg.)	available	available	available	available
dlcd15a	Employment status: grant/scholarship	available	available	**anonymized**	**anonymized**
dlcd15b	Employment status: in practical training	available	available	**anonymized**	**anonymized**
dlcd15g	Employment status: other	available	available	**anonymized**	**anonymized**
dlcd15_g1	Employment status: other (incl. scholarship, practical training)	available	available	available	available
demp146	Current job: occupational status	available	available	**anonymized**	**anonymized**

demp146_g1	Current job: occupational status (aggregated)	available	available	available	available
demp118a	Since when current/last job: month	available	available	**anonymized**	**anonymized**
demp118a_g1	Since when current/last job: month (agg.)	available	available	available	available
demp119a	End of last job: month	available	available	**anonymized**	**anonymized**
demp119a_g1	End of last job: month (agg.)	available	available	available	available
demp120a	Current/last occupation: beginning - month	available	available	**anonymized**	**anonymized**
demp120a_g1	Current/last occupation: beginning - month (agg.)	available	available	available	available
demp121a	Last occupation: end - month	available	available	**anonymized**	**anonymized**
demp121a_g1	Last occupation: end - month (agg.)	available	available	available	available
demp133a_g1	Current job: monthly gross income	**anonymized**	**anonymized**	**anonymized**	**anonymized**
demp133b_g1	Current job: currency (Euro+foreign currency)	**anonymized**	**anonymized**	**anonymized**	**anonymized**
demp133b_g2	Current job: foreign currency exchange rate to Euro 05.2022	**anonymized**	**anonymized**	**anonymized**	**anonymized**
demp133_g1	Current job: monthly gross income in Euro (agg., Top-Coding)	available	available	**anonymized**	**anonymized**
demp133_g2	Current job: monthly gross income in Euro (agg., 20 categories)	available	available	available	**anonymized**
demp133_g3	Current job: monthly gross income in Euro (agg., 4 categories)	available	available	available	available
demp134	Current job: grouping - monthly gross income	available	available	available	**anonymized**
demp136a_g1	Current/last place of work: first three digits of postal code	available	**anonymized**	**anonymized**	**anonymized**
demp136a_g2	Current/last place of work: first two digits of postal code	available	available	**anonymized**	**anonymized**
demp136c_g1	Current/last place of work: country (abroad)	available	available	**anonymized**	**anonymized**
demp136c_g2	Current/last place of work: country (abroad) (world regions)	available	available	available	available
demp135a	Current job: company size	available	**anonymized**	**anonymized**	**anonymized**
demp135a_g1	Current job: company size (aggregated, 12 categories)	available	available	**anonymized**	**anonymized**
demp135a_g2	Current job: company size (aggregated, 6 categories)	available	available	available	available
demp137c	Current/last job management function: number of subordinates	available	**anonymized**	**anonymized**	**anonymized**
demp137c_g1	Current/last job management function: number of subordinates (agg., 12 cat.)	available	available	**anonymized**	**anonymized**
demp137c_g2	Current/last job management function: number of subordinates (agg., 6 cat.)	available	available	available	available
demp141a	Current job: sector	**anonymized**	**anonymized**	**anonymized**	**anonymized**
demp141a_g1	Current job: sector (aggregated)	available	available	**anonymized**	**anonymized**
demp142a	Organisation: higher education institution	**anonymized**	**anonymized**	**anonymized**	**anonymized**
demp142a_g1	Organisation: higher education institution (aggregated)	available	available	**anonymized**	**anonymized**
demp143a	Research organisation - type	**anonymized**	**anonymized**	**anonymized**	**anonymized**
demp143a_g1	Research organisation - type (aggregated)	available	available	**anonymized**	**anonymized**
demp144a	Research organisation - name	**anonymized**	**anonymized**	**anonymized**	**anonymized**
demp145a	Scientific staff category	**anonymized**	**anonymized**	**anonymized**	**anonymized**
demp145a_g1	Scientific staff category (aggregated)	available	**anonymized**	**anonymized**	**anonymized**
dlcd07	Number of children	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd07_g1	Number of children (aggregated)	available	available	available	available
dlcd08aa	Month of birth of children: 1. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08ab	Year of birth of children: 1. child	available	**anonymized**	**anonymized**	**anonymized**
dlcd08ba	Month of birth of children: 2. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08bb	Year of birth of children: 2. child	available	**anonymized**	**anonymized**	**anonymized**

dlcd08ca	Month of birth of children: 3. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08cb	Year of birth of children: 3. child	available	**anonymized**	**anonymized**	**anonymized**
dlcd08da	Month of birth of children: 4. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08db	Year of birth of children: 4. child	available	**anonymized**	**anonymized**	**anonymized**
dlcd08ea	Month of birth of children: 5. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08eb	Year of birth of children: 5. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08fa	Month of birth of children: 6. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08fb	Year of birth of children: 6. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08ga	Month of birth of children: 7. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08gb	Year of birth of children: 7. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08ha	Month of birth of children: 8. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08hb	Year of birth of children: 8. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08ia	Month of birth of children: 9. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08ib	Year of birth of children: 9. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08ja	Month of birth of children: 10. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08jb	Year of birth of children: 10. child	**anonymized**	**anonymized**	**anonymized**	**anonymized**
dlcd08_g1	Age of the youngest child in the year of the survey	available	available	**anonymized**	**anonymized**
dhea01	General state of health	available	available	**anonymized**	**anonymized**
dhea11	Number of days: physically not feeling well in the last four weeks	available	available	**anonymized**	**anonymized**
dhea12	Number of days: mentally not feeling well in the last four weeks	available	available	**anonymized**	**anonymized**
dhea13	Number of days: everyday activities restricted in the last four weeks	available	available	**anonymized**	**anonymized**
dlcd16a_g1	Current place of main residence: first three digits of postal code	available	**anonymized**	**anonymized**	**anonymized**
dlcd16a_g2	Current place of main residence: first two digits of postal code	available	available	**anonymized**	**anonymized**
dlcd16c_g1	Current place of main residence: country (abroad)	available	available	**anonymized**	**anonymized**
dlcd16c_g2	Current place of main residence: country (abroad) (world regions)	available	available	available	available
demp196	Corona: satisfaction employer measures	available	available	**anonymized**	**anonymized**
dlcd21a	Corona: standard of living	available	available	**anonymized**	**anonymized**
dlcd21b	Corona: money problems	available	available	**anonymized**	**anonymized**
dlcd21c	Corona: illness of close people	available	available	**anonymized**	**anonymized**
dlcd21d	Corona: conflicts in the family	available	available	**anonymized**	**anonymized**
dlcd21e	Corona: loneliness	available	available	**anonymized**	**anonymized**
dlcd21f	Corona: care bottlenecks (children/relatives in need of care)	available	available	**anonymized**	**anonymized**
dlcd21g	Corona: school problems	available	available	**anonymized**	**anonymized**
dlcd21h	Corona: reconciling family and work	available	available	**anonymized**	**anonymized**