

## Appendix D: EVS 2017 Mixed-mode approach and matrix design

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### Report related to the EVS 2017 data sets:

- EVS 2017 Integrated Dataset (EVS 2017) - ZA7500  
Current dataset version: v3-0-0, 2020-05-27 (third pre-release)  
DOI: 10.4232/1.13511 (URL: <http://dx.doi.org/10.4232/1.13511>)
  - EVS 2017 Integrated Dataset (EVS 2017) - Matrix Design Data - ZA7502  
Current dataset version: v1-0-0, 2020-05-27 (first pre-release)  
DOI: 10.4232/1.13092 (URL: <http://dx.doi.org/10.4232/1.13092>)
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The document describes in detail the concept behind the composition of the two EVS datasets, the EVS Integrated dataset and the EVS Integrated dataset – Matrix Design. In particular, it outlines the main characteristics of the implementation of the mixed-mode and matrix design strategy in EVS 2017. The strategy was adopted by Switzerland, Iceland, Netherlands, Germany, Finland, and Denmark.

### Protocol variables related to mixed mode and matrix design

mode	mode of data collection
mm_select_sample	FLAG MIXED MODE: subsamples on mode variables
mm_mixed_mode	mixed mode/matrix design
mm_mode_fu	mode of data collection (follow-up)
mm_matrix_group	matrix attribution (group/variable bloc)
mm_fw_start_fu	year/month of start-fieldwork (matrix design)
mm_fw_end_fu	year/month of end-fieldwork (matrix design)
mm_year_fu	survey year (follow-up)
mr_detailed_mode_DE	survey mode in detail CAPI/CAWI/MAIL sample (Germany)
mr_contact_mode_DE	contact mode CAWI/MAIL (Germany)
mr_incentive_DE	incentive in Euros CAPI/CAWI/MAIL (Germany)
mm_v277_fu	date of interview (Q107) (follow-up)
mm_v278a_fu	time of interview: start hour (Q108) (follow-up)
mm_v278b_fu	time of interview: start minute (Q108) (follow-up)
mm_v279a_fu	time of interview: end hour (Q108) (follow-up)
mm_v279b_fu	time of interview: end minute (Q108) (follow-up)
fduplicate	FLAG duplication of cases: merging integrated/matrix design dataset
fmissings	FLAG complete/incomplete case

# Guide to EVS 2017 mixed mode approach and matrix design

## Table of content

Legend	3
1. Introduction	4
2. Dataset structure	4
2.1. EVS Integrated dataset	5
2.2. EVS Integrated dataset – Matrix Design Data	6
2.3. Duplicate cases: Variable ‘fduplicate’	7
2.4. Complete cases: Variable ‘fmissings’	8
3. Mode of data collection	8
3.1. Mixed mode in EVS 2017	8
3.1.1. Variable: mode	9
4. Self-administered mode	10
4.1. Sampling	10
4.2. Adaptation of the EVS questionnaire to self-administered surveys	10
4.3. Practical path in case of mixed mode	12
4.4. Self-administered mode applied by countries	12
4.4.1. Variable: mm_mixed_mode	13
5. Matrix design	14
5.1. Matrix design applied by countries	16
5.1.1. Variable: mm_matrix group	16
5.1.2. Variable: mm_mode_fu	17
5.1.3. Variables: mm_fw_start_fu, mm_fw_end_fu, mm_year_fu, mm_v27**_fu	17
6. Responsive design	17
6.1. The two-phases responsive design	18
6.2. Responsive design concept: variables	18
6.2.1. Variables: mr_detailed_mode_DE, mr_contact_mode_DE, mr_incentive_DE	18
7. Missing values overview	19
8. Summary	19
8.1. Variable: mm_select_sample	20
8.2. Summary of mixed-mode variables	22
9. Practical Examples and Scenarios for the selection of cases	23
Scenario 1: Interviewer-administered mode	24
Scenario 2: Full-length questionnaire across modes	24
Scenario 3: Full length questionnaire across modes – retain original question order	25

Scenario 4: Self-administered mode .....	25
Scenario 5: Matrix design excluding the follow up .....	25
References .....	27
Appendix A – list of 277 questionnaire items .....	28
Appendix B – Panel attrition .....	29
Appendix C – Merging syntaxes .....	30

## List of tables

Table 1. Distribution of variable 'fmissings' by dataset. ....	8
Table 2. Overview of modes allowed in EVS 2017 .....	8
Table 3. Overview of modes used by countries in EVS17.....	9
Table 4. Variable 'mode' .....	10
Table 5. Overview of mixed-mode and matrix design implementation by country .....	12
Table 6. Variables: 'mode' and 'mm_mixed_mode' implemented in the data.....	13
Table 7. Distribution of 'mm_mixed_mode' by dataset.....	14
Table 8. Matrix design: variable blocks .....	15
Table 9. Matrix design: question blocks assigned to first matrix survey .....	15
Table 10. Matrix design: first and second round survey .....	15
Table 11. Matrix design: question blocks assigned to second matrix survey (mini-panel) .....	15
Table 12. Variables: 'mm_matrix_group' and 'mode', and sample size in each dataset .....	16
Table 13. Variables: 'mode', 'mm_mixed_mode', 'mm_matrix_group' and 'mm_mode_fu' .....	17
Table 14. Overview of the variables related to the responsive design (country: DE).....	18
Table 15. Variables: mode, mr_detailed_mode_DE, mr_contact_mode_DE, mr_incentive_DE.....	19
Table 16. Overview of mixed-mode specific missing values .....	19
Table 17. Variable: mm_select_sample by dataset. ....	21
Table 18. Summary of mixed-mode protocol variables .....	22
Table 19. Matrix design: example for variable v9 .....	23

## List of figures

Figure 1. Distribution of cases (respondents) into datasets according to the mixed mode survey characteristics. .	5
Figure 2. Paths leading cases into the EVS Integrated dataset. ....	6
Figure 3. Paths leading cases into the EVS Integrated dataset- Matrix Design Data. ....	7
Figure 4. Paths leading cases into both the EVS Integrated dataset and the EVS Integrated dataset- Matrix Design Data. ....	7
Figure 5. Matrix design - example .....	14
Figure 6. Example from Matrix-Design: Question Blocks (see <a href="#">[4]</a> ) .....	23

## Legend

CAPi = Computer Assisted Personal Interview

TAPi = Tablet Assisted Personal Interview

PAPi = Paper-and-Pencil (personal) Interview

CATi = Computer-Assisted Telephone Interview

CAWI = Computer-Assisted Web Interview (also known as: Web survey)

Mail = Postal (paper-and-pencil) self-administered interview

### Main changes from previous version (v2-0-0)

- Cases are now split over two datasets (EVS Integrated Dataset and EVS Integrated Dataset – Matrix Design Data)
- Codes in mm\_select\_sample and mm\_mixed\_mode have slightly changed
- Change in the definition of break-off cases (break-off cases included in the EVS Integrated Dataset – Matrix Design Data)
- Change in the definition of missing values

## 1. Introduction

One of the most important innovations in the European Values Study (EVS) 2017 has been the introduction of the possibility for countries to field the EVS questionnaire using different modes of data collection (that is, a combination of face-to-face interviews with self-administered interviews). The following document outlines the main characteristics of the implementation of the mixed-mode strategy in the EVS 2017. The strategy was adopted, in different forms, by six countries: Switzerland (CH), Iceland (IS), Netherlands (NL), Germany (DE), Finland (FI), and Denmark (DK).

**Beware!** It is recommended to pay attention to the mode structure when using EVS 2017 data, especially when comparing values across countries and/or across waves. Our preliminary checks did not show large differences in measurement between the different design elements, but we recommend testing several scenarios to verify that the results are stable and/or to use the appropriate 'mm\_\*' variable(s) (described in sections 3 to 8 in the following document) as control variables in multivariate models.

After describing the dataset structure, we will explain in more details the main concepts related to the mixed-mode design and how they are implemented in the data. The sections are articulated as follows:

- *Section 2* describes the concept behind the composition of the two EVS datasets, the EVS Integrated dataset and the EVS Integrated dataset – Matrix Design Data;
- *Section 3* describes the possible combinations of modes used by the countries and how these can be identified in the datasets;
- *Section 4* focuses on the self-administered mode, its practical implementation by the EVS country teams, as well as how the different designs can be identified in the datasets;
- *Section 5* offers a more detailed account of the matrix design adopted by four of the countries and the related variables offered in the datasets;
- *Section 6* describes the responsive design employed in Germany and its related variables;
- *Section 7* offers an overview of the specific missing values that have been devised to better reflect the mixed-mode strategy features;
- *Section 8* offers a summary of the variables described in the various sections, as well as the introduction of a new variable ('mm\_select\_sample') which has been designed with the specific purpose of helping data users selecting sub-samples;
- Finally, *section 9* describes some possible scenarios for selecting subsamples based on the requirements of the data users. The list is not exhaustive, but it aims at providing some practical guidance on how to navigate the data

## 2. Dataset structure

Alongside the EVS 2017 3<sup>rd</sup> pre-release, two different EVS survey datasets are provided: (1) EVS Integrated Dataset and (2) EVS Integrated dataset – Matrix Design Data. Cases are distributed into the datasets according to the characteristics of the survey design they were part of. As an overview, the distribution of cases into datasets based on mode, design and amount of non-substantive answers is summarized in Figure 1.

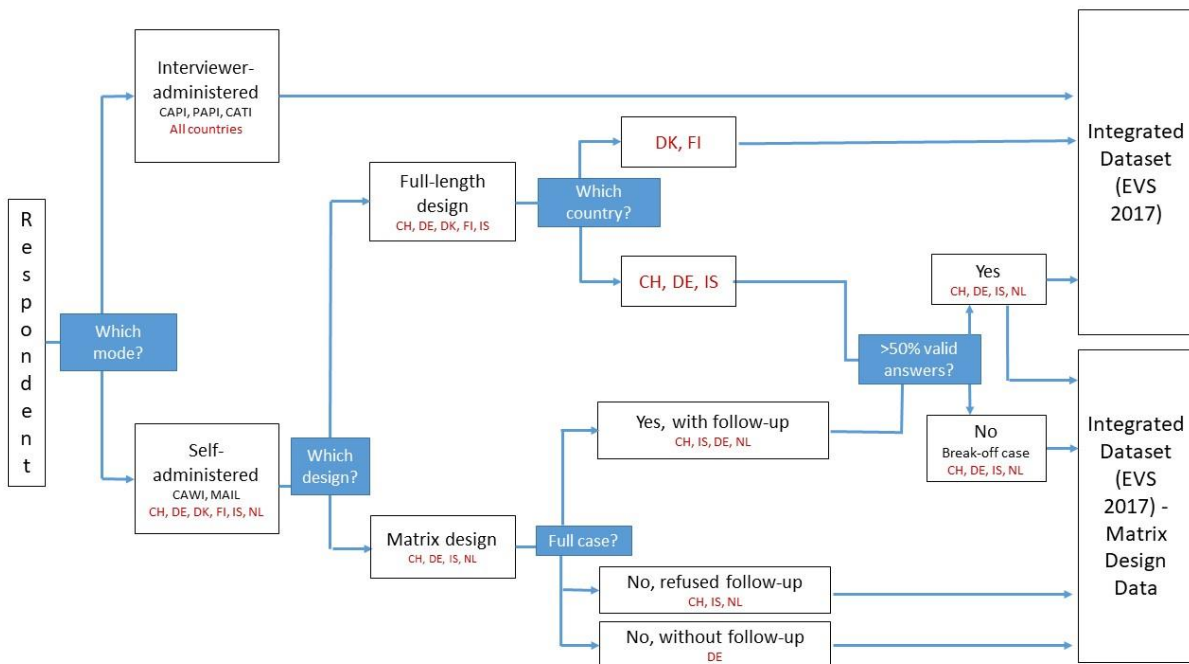
The distribution of cases into the datasets is based on several elements, namely:

- 1) The mode of data collection, namely whether the survey was administered by an interviewer or whether it was self-completed (see Section 3)

- 2) The design of the self-administered survey, namely whether a full-length questionnaire or a shorter version based on the matrix design was administered (see Section 4)
- 3) Whether, within the matrix design framework, the respondent has filled in the whole survey or not (see Section 5)
- 4) The overall design implemented in the country (see Sections 3 to 6)
- 5) Whether the respondent has filled in at least 50% of the questions.

All these elements will be described more extensively in the next sections.

**Figure 1. Distribution of cases (respondents) into datasets according to the mixed mode survey characteristics.**



## 2.1. EVS Integrated dataset

The **EVS Integrated dataset**, hereinafter referred to also as the **Main dataset**, is an anonymized dataset comprising data from 33 countries and 55,276 respondents. These are all the respondents from the interviewer-administered mode (CAPI, PAPI and CATI), and the **full cases** from the self-administered (CAWI and MAIL) mixed-mode and matrix design mode (see Figure 2). Two criteria are used to identify the full cases:

- a) the respondent has filled in the self-administered full-length questionnaire **OR** the respondent has filled in the first (first survey) and second round (follow-up) of the matrix design;
- b) the respondent has “no answer” on less than 50% of the questionnaire items<sup>1</sup>.

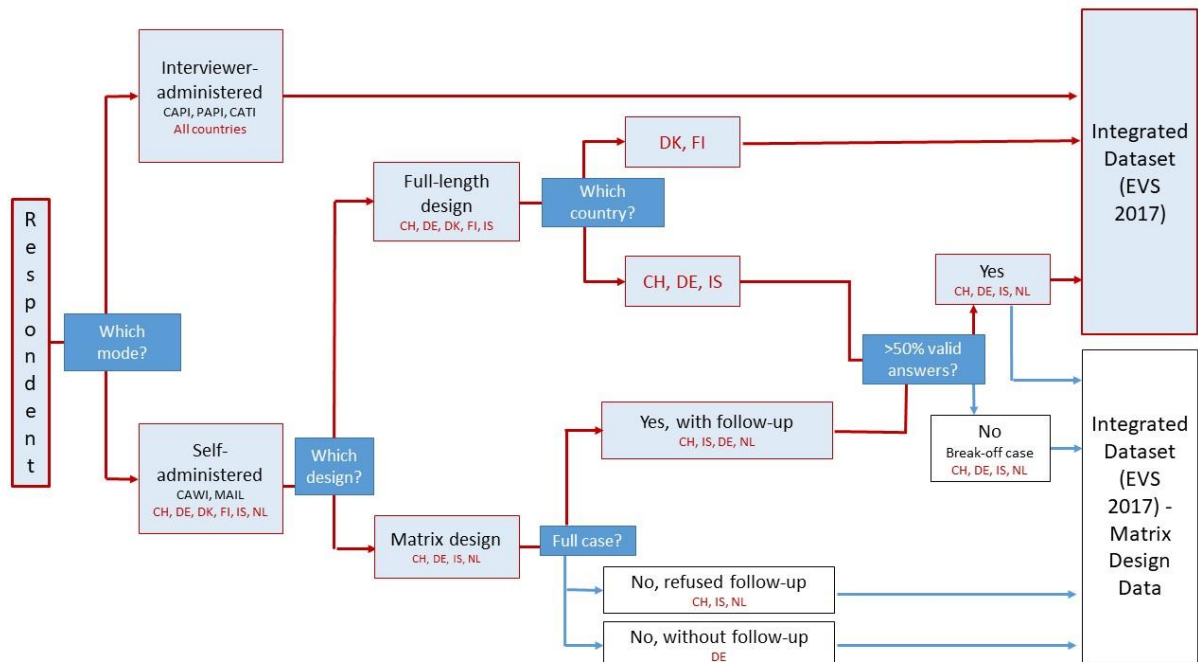
The use of the EVS Integrated dataset is recommended for substantive research involving EVS data.

**Beware!** The inclusion of full cases from the matrix design in the EVS Integrated dataset could potentially cause bias, due to panel attrition and respondents dropping out between the first survey and the follow-up. We run some preliminary analyses (see Appendix B), regressing the completion of the follow-up on a number of socio-demographic predictors. Our results show that, even though the logit coefficients of some predictors appear significant, the explained variance is overall low, indicating the bias is not too

<sup>1</sup> The list of variables used to compute the % of no answers is provided in Appendix A.

large. Nevertheless, we advise to carefully choose control variables when building multivariate models. In addition to the full cases from the matrix design, cases from the full-length modified-order design are included: due to potential order effects between questions, it is recommended to check this aspect carefully when including this condition in the analyses (see Section 4 for more information).

**Figure 2. Paths leading cases into the EVS Integrated dataset (Main dataset).**

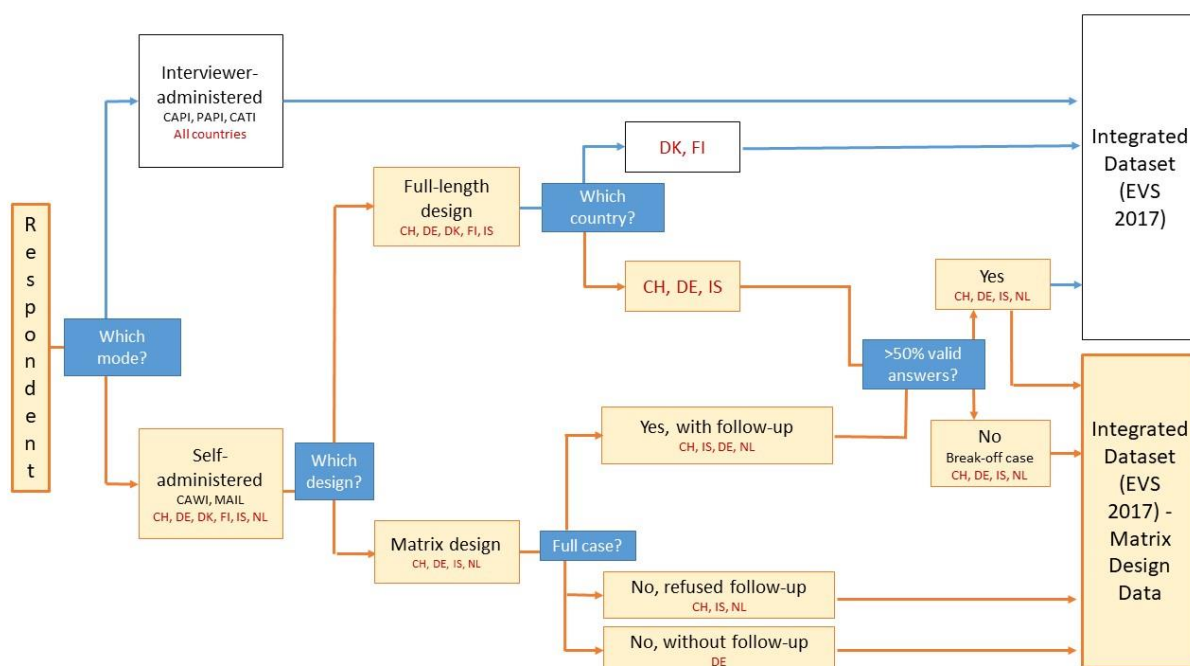


## 2.2. EVS Integrated dataset – Matrix Design Data

The **EVS Integrated dataset – Matrix Design Data**, hereinafter also referred to as the **Matrix Design dataset**, is an anonymized dataset comprising 10,598 cases from the four countries implementing the matrix design: Switzerland, Germany, Iceland and the Netherlands. Both cases from the full-length design and from the matrix design are included. As for the latter, all respondents who filled in the matrix design are incorporated, ignoring the distinction between those who filled in only the first survey and those who also filled in the follow-up. Finally, the dataset also comprises break-off cases (cases with ‘no answer’ to more than 50% of the questionnaire items). See Figure 3 for a visual representation.

Due to its experimental nature, the use of this dataset is mostly recommended for methodological research.

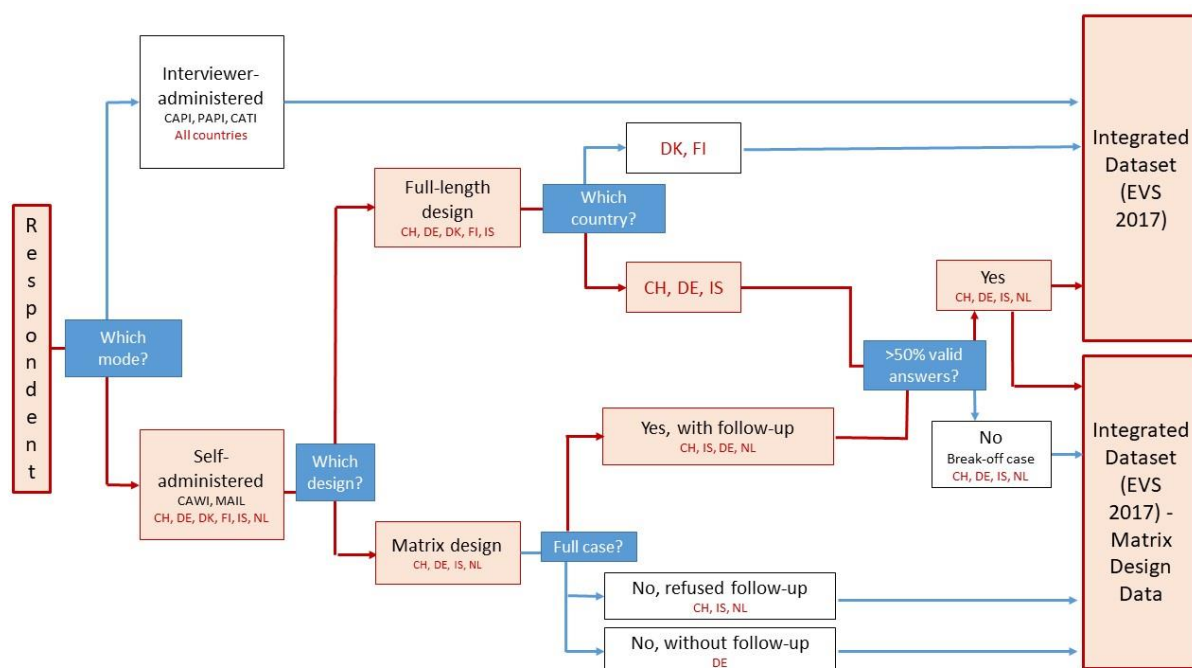
Figure 3. Paths leading cases into the EVS Integrated dataset- Matrix Design Data (Matrix Design dataset).



### 2.3. Duplicate cases: Variable ‘fduplicate’

5,604 cases appear both in the Main and the Matrix Design dataset. These are full cases, either from the full-length design or from the matrix design (only those who also completed the follow-up). These cases are flagged in both datasets by the variable ‘fduplicate’. When merging datasets, it is important to make sure that only one record is retained for each of these cases. Guidance on how to merge the datasets on SPSS, Stata or RStudio can be found in Appendix C. The cases flagged as duplicates are also highlighted in the diagram in Figure 4.

Figure 4. Paths leading cases into both the EVS Integrated dataset (Main dataset) and the EVS Integrated dataset- Matrix Design Data (Matrix Design dataset).





## 2.4. Complete cases: Variable 'fmissings'

The large majority of the individual records included in the datasets are complete cases, namely they provided valid answers to at least 80% of the items. There is, however, a small portion of incomplete or partial cases, namely cases that preferred not to answer to more than 50% but less than 80% of the items. Cases that provided valid answers to less than 50% of the questions<sup>2</sup> are considered break-off cases and hence excluded. An exception is made for the Matrix Design data, where it was decided to retain break-off cases for methodological purposes. The break-off cases are only included in the EVS Integrated dataset – Matrix Design Data. The variable 'fmissings' is provided to enable distinguishing among these different situations (see Table 1 ).

**Table 1. Distribution of variable 'fmissings' by dataset.**

fmissings	EVS Integrated dataset	EVS Integrated dataset - Matrix Design Data	<i>Of which duplicate cases</i>
0 full/complete case	55,067	10,358	5,545
1 incomplete/partial case	209	91	59
2 Break-off (matrix design)	--	122	0
<i>Total</i>	55,276	10,598	5,604

## 3. Mode of data collection

In EVS, the main mode of data collection is interviewer-administered. Face-to-face interviews are administered by a trained interviewer, with the support of a computer (CAPI mode), tablet (TAPI mode) or paper version (PAPI mode) on which answers to the questionnaire are recorded. For parsimony reasons, CAPI and TAPI interviews are aggregated under the label CAPI. Additionally, in special cases countries interviewers conducted interviews over the phone (CATI mode).

### 3.1. Mixed mode in EVS 2017

In EVS 2017, for the purposes of increasing coverage and response rates, countries had the possibility of implementing a parallel self-administered questionnaire, with respondents assigned to either a Web survey (CAWI mode) or a postal paper-and-pencil survey (MAIL mode). An overview of the grouping of modes is provided in Table 2, while an overview of the modes used in each country is provided in Table 3.

**Table 2. Overview of modes allowed in EVS 2017**

Interviewer-administered	Self-administered
CAPI (TAPI)	CAWI
PAPI	MAIL
CATI	

**Mixed-mode** refers to the parallel implementation of different modes of data collection between interviewer-administrated and self-administrated conditions in the realization of the survey in one particular country. There are roughly two situations:

- Interviewer-administered mode as the main mode: applied by all countries

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<sup>2</sup> This means about 139 variables for the full questionnaire or about 85 variables if only the first survey was answered.

- Self-administered mode as a parallel mixed mode: additionally applied by six countries.

Web surveys (CAWI) are the main alternative to face-to-face interviews. However, countries have also used postal surveys (Mail) for several purposes such as reaching ‘offline’ segments of the population and accommodate respondents who do not like to answer on a screen. As a general rule, if the response rate to the web part was expected to be lower than 40%, countries were encouraged to implement measures in order to increase the final response rate.

**Table 3. Overview of modes used by countries in EVS2017**

**Please note:** these numbers can be obtained by merging the EVS Integrated dataset and the EVS Integrated dataset – Matrix Design Data.

		Mixed mode	Interviewer-administered			Self-administered		Total
	Country		CAPI	PAPI	CATI	CAWI	Mail	
AL	Albania			1,435				1,435
AM	Armenia			1,500				1,500
AT	Austria		1,644					1,644
AZ	Azerbaijan			1,800				1,800
BY	Belarus			1,548				1,548
BA	Bosnia-Herzegovna		1,724					1,724
BG	Bulgaria			1,558				1,558
HR	Croatia		1,487					1,487
CZ	Czechia		757	1,054				1,811
DK	Denmark	X	1,696			1,255	411	3,362
EE	Estonia		1,304					1,304
FI	Finland	X	388			668	143	1,199
FR	France		1,870					1,870
GE	Georgia		2,194					2,194
DE	Germany	X	1,494			1,021	2,941	5,456
GB	Great Britain		1,788					1,788
HU	Hungary		1,514					1,514
IS	Iceland	X	881	34		1,514	82	2,511
IT	Italy		2,277					2,277
LT	Lithuania			1,448				1,448
ME	Montenegro		1,003					1,003
NL	Netherlands	X	686			2,053		2,739
MK	North Macedonia			1,117				1,117
NO	Norway		977		145			1,122
PL	Poland		1,352					1,352
RO	Romania		1,613					1,613
RU	Russia		1,354	471				1,825
RS	Serbia			1,499				1,499
SK	Slovakia		1,432					1,432
SI	Slovenia		1,075					1,075
ES	Spain		1,209					1,209
SE	Sweden		1,194					1,194
CH	Switzerland	X	673			2,124	863	3,660
Total			33,586	13,464	145	8,635	4,440	60,270

### 3.1.1. Variable: mode

The mode of data collection can be identified through the protocol variable ‘mode’, which consists of 5 categories: 1 CAPI, 2 PAPI, 3 CAWI, 4 Mail, and 5 CATI. It allows detecting the mode of interview of each respondent (see Table 4).

Table 4. Variable 'mode'

**Please note:** these numbers can be obtained by merging the EVS Integrated dataset and the EVS Integrated dataset – Matrix Design Data

mode	Interviewer-administered	Self-administered	Total
1 CAPI	33,586		33,586
2 PAPI	13,464		13,464
3 CAWI		8,635	8,635
4 MAIL		4,440	4,440
5 CATI	145		145
Total	47,195	13,075	60,270

## 4. Self-administered mode

This section describes the implementation of the self-administered (CAWI and Mail) interviews.

### 4.1. Sampling

The sampling had to be the same as for the main face to face survey (see [\[1\]](#) and [\[7\]](#)).

### 4.2. Adaptation of the EVS questionnaire to self-administered surveys

The EVS17 Master Questionnaire (see [\[5\]](#)) was prepared by the EVS Theory Group and provided in English, containing – beyond the questions and answer options – also interviewer and routing instructions. Each country was responsible for translating it and adapting it to the chosen interviewer-administered mode (CAPI, CATI and PAPI).

An additional version of the EVS17 Master Questionnaire was prepared by the EVS Methodology Group for implementation in the self-administered modes (CAWI, Mail) (see [\[6\]](#)).

Adaptations concerned for instance:

- Question texts: formulations like “please say” or “could you please tell me” only work when read out by interviewers, hence they were replaced by “please indicate” or “we would like to ask you” etc. (see box below) ...

**Example**

<i>Interviewer-administered:</i>	Q1. Please say, for each of the following, how important it is in your life.
<i>Self-administered:</i>	Q1. Please indicate how important is in your life...

- Interviewer instructions: without an interviewer controlling the flow of the questionnaire, instructions in the self-administered mode were directly provided to interviewees (see box below).

**Example**

<i>Interviewer-administered:</i>	Q6. [READ OUT AND CODE ONE ANSWER PER LINE]
<i>Self-administered:</i>	Q6. Check all that apply.

- 'Spontaneous' answer options: all "don't know" and "no answer" options are spontaneous in the self-administered environment. For the CAWI, it was then decided to make the options visible only once the respondents tried to skip the question without selecting a valid answer. In the MAIL format, options were directly offered to respondents.

#### **Example**

The answer categories below the line are to be shown only once the respondent has tried to skip the question, together with this message<sup>3</sup>:

*„We noticed that you did not answer this question. We would be very grateful if you answered to the best of your knowledge, even if you are not completely sure. But if you prefer not to answer to the question, you can continue the questionnaire.“*

Yes	[1]
No	[2]
I don't know	[8]
I prefer not to answer	[9]

Each country was responsible of importing the questionnaire into the chosen Web survey software and/or for preparing the paper version to send via snail mail<sup>4</sup>.

Rules and advices about such adaptation as well as link to examples of implementation in order to help the countries in implementing the Web survey version were given in the "EVS2017 Mixed mode Guidelines" (see [2]). The document outlined some general rules<sup>5</sup> to be observed:

- Progress indicators are not allowed
- A "Back" button has to be provided, near the "Next" one.
- It must be possible to do the survey on a mobile device as a tablet or a smartphone and the design developed for a device in a "portrait" position. Para data have to be collected, so as to detect the device used.
- Each question must be placed on a page and scrolling must be avoided as far as possible in order not to have primacy effects.
- "Batteries of questions" have to be avoided and replaced by "simple questions". In this case, consider visually maintaining the constant part and modifying only the part for each item. This is of course needed for mobile devices but could also be recommended in order to avoid lining or satisficing in the PC version. This should also be respected for the mail version. A few exceptions, in which grids have to be presented, will be pointed out.
- Use a simple and clear design and avoid underlining that can be confused with hyperlinks.
- The questionnaire must not propose explicitly a "Non response" option but must provide a reminder if a respondent does not answer a question.

An example on the presentation of different types of questions and several manners to answer it is given in the document "CAWI-Question-Design-CH.doc" [3]) developed by FORS and provided by the Swiss team.

<sup>3</sup> The wording has been taken from CRONOS (for more details, see [http://www.europeansocialsurvey.org/methodology/methodological\\_research/modes\\_of\\_data\\_collection/cronos.html](http://www.europeansocialsurvey.org/methodology/methodological_research/modes_of_data_collection/cronos.html))

<sup>4</sup> Basic versions of the questionnaires could also be exported from the Translation Management Tool (TMT).

<sup>5</sup> We use here the elements proposed for the CRONOS web panel. Thanks to this initiative for providing these, also in the context of the SERISS project.

### 4.3. Practical path in case of mixed mode

For the practical realization, the following sequence of steps was proposed, in order to stay close to a “Tailored Design Model” as proposed by Dillman<sup>6</sup>. This strategy is also called “push-to-Web”.

- Send the link to the questionnaire, ideally with an unconditional cash incentive.
- Send a recall with once again the link.
- Send a paper questionnaire with a prepaid response envelope.
- Send a last recall.

Countries were, however, allowed to propose different strategies.

### 4.4. Self-administered mode applied by countries

The possibility of using the self-administered mode was implemented in different ways by countries, and in some cases enriched by two methodological experiments: the matrix design and the responsive design. These will be more thoroughly described in the next sections. An overview of the design adopted by each country can be found in Table 5. In general:

- Five out of the six “mixed-mode” countries administered the survey based on the full-length EVS questionnaire that is that they administered the whole EVS questionnaire in one go.
  - o In two of these countries (Denmark and Finland), the full-length questionnaire was the only design implemented;
  - o In the other three countries (Switzerland, Germany and Iceland), the full-length questionnaire condition was used in parallel to the matrix design;
  - o Switzerland additionally used two versions of the full-length questionnaire, one resembling the order of questions of the EVS questionnaire, and one with a modified order of questions.
- Four countries (Switzerland, Germany, Iceland and Netherlands) employed a matrix design experiment, splitting the questionnaire in variable blocks and assigning them to matrix groups.
  - o Whereas three of the four countries administered two rounds, matrix 1<sup>st</sup> round and a follow-up round, Germany administered a matrix 1<sup>st</sup> round only.
- Germany additionally implemented a responsive design experiment. The matrix design survey employed a responsive design in two phases performing experimental research on contact mode and incentive.

More details about these strategies are given in Sections 5 and 6.

Table 5. Overview of mixed-mode and matrix design implementation by country

		Full-length questionnaire (original order)	Full-length questionnaire (modified order)	Matrix (1st round)	Matrix (Follow up)	Responsive design
CH	Switzerland	X	X	X	X	
DE	Germany	X		X		X
DK	Denmark	X				
FI	Finland	X				

<sup>6</sup> Dillman, D. A., Smyth, J. D., & Christian, L. M. (2014). Internet, phone, mail, and mixed-mode surveys: the tailored design method. John Wiley & Sons.

IS	Iceland	X		X	X	
NL	Netherlands			X	X	

#### 4.4.1. Variable: mm\_mixed\_mode

The protocol variable '**mm\_mixed\_mode**' describes the mixed mode design adopted. An overview is provided in Table 6. In general,

- For self-administered mode surveys, '**mm\_mixed\_mode**' identifies the design used: full(-length) questionnaire (code 1), full(-length) questionnaire with modified order (code 2), matrix design with follow-up (code 3) and matrix design without follow-up (code 4);
- For interviewer-administered mode surveys, '**mm\_mixed\_mode**' is not applied (code 5).

Table 6. Variables: '**mode**' and '**mm\_mixed\_mode**' implemented in the data

**Please note:** these numbers can be obtained by merging the EVS Integrated dataset and the EVS Integrated dataset – Matrix Design Data

c_abrv	mode	mm_mixed_mode				
		1 mixed mode: full questionnaire	2 mixed mode: full (mod. order) questionnaire	3 mixed mode: matrix and follow-up	4 mixed mode: matrix only	5 mixed mode: not applied
All countries	1 CAPI					27,768
	2 PAPI					13,430
	5 CATI					145
CH	1 CAPI					673
	3 CAWI	300	323	1,501		
	4 Mail	111	124	628		
DE	1 CAPI					1,494
	3 CAWI	117			904	
	4 Mail	571			2,370	
DK	1 CAPI					1,696
	3 CAWI	1,255				
	4 Mail	411				
FI	1 CAPI					388
	3 CAWI	668				
	4 Mail	143				
IS	1 CAPI					881
	2 PAPI					34
	3 CAWI	209		1,305		
	4 Mail	30		52		
NL	1 CAPI					686
	3 CAWI			2,053		
Total		3,815	447	5,539	3,274	47,195
		4,262		8,813		

Each dataset contains a subsample of these categories, as illustrated in Table 7.

Table 7. Distribution of 'mm\_mixed\_mode' by dataset

mm_mixed_mode	EVS Integrated dataset	EVS Integrated dataset - Matrix Design Data	Of which duplicate cases
1 mixed mode: full questionnaire	3,793	1,338	1,316
2 mixed mode: full (mod. order) questionnaire	437	447	437
3 mixed mode: matrix and follow-up	3851	5,539	3,851
4 mixed mode: matrix only		3,274	
5 mixed mode: not applied	47,195		

## 5. Matrix design

The EVS 2017 Master Questionnaire is a rather long survey (~280 ticks), and the EVS Methodology Group deemed it not fully suitable for the Web implementation, as it would have been difficult to administer in one step. For these reasons, some suggestions were provided:

- It was advised to make sure that the survey could be interrupted at any moment as needed by the respondents;
- If applied in its full length, advance letters had to mention this aspect;
- Specific recalls had to be prepared for people interrupting the answer process and not coming back after a decent delay. A file containing the history of contacts has to be provided;
- Finally, a matrix design could be applied.

The matrix design consists of splitting the questionnaire into several coherent blocks of questions. Each respondent, instead of getting the whole questionnaire, would then get only some of these blocks. This procedure requires a bigger sample size. A more practical example is provided in the box below.

**Example** (from Mixed Mode guidelines – see [\[2\]](#))

Let us consider the following design, dividing the survey into 4 blocks, aiming at overall around 2000 respondents, divided into 6 situations, S1 to S6. In such a design, each block will be answered by about 1000 respondents and at least 333 answers could be mobilized for analysis between blocks.

Groups	Background	A	B	C	D
S1	333	333	333		
S2	333	333		333	
S3	333	333			333
S4	333		333	333	
S5	333		333		333
S6	333			333	333

- 2000 respondents overall,  
1000 respondents for each substantive question;  
at least 333 respondents for each binary combination of questions.

Figure 5. Matrix design - example

For EVS 2017, the division into blocks was prepared by the Swiss team. The information is summarized in a document (see [\[4\]](#)) containing detailed information on the changed order of the questions assigned to matrix groups and respondents and has been used as basis by all countries applying matrix design.

The grouping of questions was done taking into account the topic and the correlations between items/questions. The concept was adopted by four countries (Switzerland, Germany, Iceland and the Netherlands) and implemented in the following steps:

- (1) The variables of the EVS Master Questionnaire were assigned to the five matrix blocks (see Table 8).

Table 8. Matrix design: variable blocks

Question block	Main themes
Core	Demographics, life perception & core questions from blocks A-D
A	Family and work
B	Religion, morals, national identity
C	Society
D	Politics

- (2) In the next step, the question blocks in Table 8 were assigned to the 6 matrix groups (see Table 9).

Two approaches were used: a country administered a first round survey only or implemented a “mini-panel”, returning to the respondents of the matrix survey and asking them to fill in a second (follow-up) round, asking questions not administered during the first wave (see Table 10 and Table 11 ).

Table 9. Matrix design: question blocks assigned to first matrix survey

Matrix group /Question block	Core	Block A	Block B	Block C	Block D
Matrix Group 1	X	X	X		
Matrix Group 2	X	X		X	
Matrix Group 3	X	X			X
Matrix Group 4	X		X	X	
Matrix Group 5	X		X		X
Matrix Group 6	X			X	X

Table 10. Matrix design: first and second round survey

First round	First questionnaire <ul style="list-style-type: none"> <li>two variable blocks</li> <li>background/core variables</li> </ul>
Second round	Follow-up <ul style="list-style-type: none"> <li>two variable blocks</li> </ul>

Table 11. Matrix design: question blocks assigned to second matrix survey (mini-panel)

Matrix group /Question block	Core	Block A	Block B	Block C	Block D
Matrix Group 1	X	X	X	<b>X</b>	<b>X</b>
Matrix Group 2	X	X	<b>X</b>	X	<b>X</b>
Matrix Group 3	X	X	<b>X</b>	<b>X</b>	X
Matrix Group 4	X	<b>X</b>	X	X	<b>X</b>
Matrix Group 5	X	<b>X</b>	X	<b>X</b>	X
Matrix Group 6	X	<b>X</b>	<b>X</b>	X	X



X: blocks assigned during first round | X: blocks assigned during the follow up

(3) Finally, each respondent was assigned to one of the matrix groups 1 to 6.

## 5.1. Matrix design applied by countries

If both the first and second round (follow-up) surveys were administered, respondents answered the full questionnaire (see Table 11). This concept was adopted by Switzerland, Iceland and the Netherlands. If only the first round survey was administered, respondents answered -besides the background/core variables- only two of the variable blocks A to D. This concept was adopted by Germany.

In addition to the matrix design, three countries (Switzerland, Germany<sup>7</sup>, Iceland) also provided a full-length questionnaire version. Moreover, one country (Switzerland) also implemented a version of the full-length questionnaire with a modified order of questions<sup>8</sup>. Two countries (Denmark, Finland) provided only the full-questionnaire version. An overview was presented above, in Table 5.

### 5.1.1. Variable: mm\_matrix\_group

The variable '**mm\_matrix\_group**' represents the matrix group/variable blocks attributed to each respondent. The variable differentiates between countries with the follow up, whose groups range from 1 to 6, and the country (Germany) with only the first round of matrix design, whose groups range from 11 to 61. It also contains categories for the full-length questionnaire version (code 7) and the full-length questionnaire with modified order (code 8). Cases from the interviewer-administered mode are coded as - 3 ('non applicable'). An overview of the coding of this variable is provided in Table 12.

Table 12. Variables: 'mm\_matrix\_group' and 'mode', and sample size in each dataset

mm_matrix_group	Mode <sup>a</sup>		EVS Integrated dataset	EVS Integrated dataset – Matrix Design Data
	3 CAWI	4 Mail		
1 [A B Core] [C D]	CH IS NL	CH IS	3,851	5,539
2 [A C Core] [B D]	CH IS NL	CH IS		
3 [A D Core] [B C]	CH IS NL	CH IS		
4 [B C Core] [A D]	CH IS NL	CH IS		
5 [B D Core] [A C]	CH IS NL	CH IS		
6 [C D Core] [A B]	CH IS NL	CH IS		
7 mixed mode: full questionnaire	CH DE DK FI IS	CH DE DK FI IS	3,793	
8 mixed mode: full (modified order) questionnaire	CH	CH	437	447
11 [A B Core]	DE	DE		3,274
21 [A C Core]	DE	DE		
31 [A D Core]	DE	DE		
41 [B C Core]	DE	DE		
51 [B D Core]	DE	DE		
61 [C D Core]	DE	DE		

<sup>7</sup> The design of the German survey is better explained in Section 6.

<sup>8</sup> In this case, the order of questions follows the order as in Group 5 of the matrix design: B D A C Core .

<sup>a</sup> cases from the CAPI, PAPI and CATI mode are coded as -3 “Not applicable” in the variable mm\_matrix\_group

### 5.1.2. Variable: mm\_mode\_fu

The variable ‘mm\_mode\_fu’ represents the mode of the data collection in the follow-up (or second round of the matrix design). It can be either CAWI (code 1) or Mail (code 2); otherwise, a set of missing values is provided (and described in section 7). Table 13 offers an overview of the coding of the mode and matrix group variables.

Table 13. Variables: ‘mode’, ‘mm\_mixed\_mode’, ‘mm\_matrix\_group’ and ‘mm\_mode\_fu’

	mode	mm_mixed_mode	mm_matrix_group	mm_mode_fu
Interviewer-administered mode	1 CAPI 2 PAPI 5 CATI	5 mixed mode not applied	- 3 not applicable	-3 not applicable
Self-administered mode	3 CAWI 4 Mail	1 mixed mode: full questionnaire	7 mixed mode: full questionnaire	-3 not applicable
		2 mixed mode: full (modified order) questionnaire	8 mixed mode: full (mod. order) questionnaire	-3 not applicable
		3 mixed mode: matrix and follow-up	1 [A B Core] [C D] 2 [A C Core] [B D] 3 [A D Core] [B C] 4 [B C Core] [A D] 5 [B D Core] [A C] 6 [C D Core] [A B]	1 CAWI (follow-up) 2 MAIL (follow-up) -8 follow-up non response
		4 mixed mode: matrix only	11 [A B Core] 21 [A C Core] 31 [A D Core] 41 [B C Core] 51 [B D Core] 61 [C D Core]	-9 no follow-up

### 5.1.3. Variables: mm\_fw\_start\_fu, mm\_fw\_end\_fu, mm\_year\_fu, mm\_v27\*\*\_fu

The administrative variables ‘mm\_fw\_start\_fu’, ‘mm\_fw\_end\_fu’, ‘mm\_year\_fu’ indicate the time of fieldwork of the follow-up (when applicable). More specifically, they respectively represent: the year-month at starting the fieldwork of the follow-up survey, the year-month at finishing the fieldwork of the follow-up survey and the year of data collection of the follow-up survey.

The date and hour of interview of the follow-up survey are recorded in variables: ‘mm\_v277\_fu’, ‘mm\_v278a\_fu’, ‘mm\_v278b\_fu’, ‘mm\_v279a\_fu’, ‘mm\_v279b\_fu’.

## 6. Responsive design

Germany performed two completely independent self-administered mode surveys:

- one survey (CAWI and Mail), comprising only the 1<sup>st</sup> round of the matrix design, that embedded a responsive survey design (2 phases) and experiments on contact mode and incentives.
- one survey (CAWI and Mail) with the full-length questionnaires, that applied only one condition: simultaneous contact mode with 5 Euros prepaid incentive for all respondents.

In both surveys, respondents in the simultaneous/concurrent contact mode condition were offered Mail and CAWI questionnaires right from the start, respondents in the sequential contact mode condition (“push-to-Web”) were offered CAWI questionnaires first, and Mail questionnaires later with the 2<sup>nd</sup> reminder.

## 6.1. The two-phases responsive design

1. Self-administered survey (CAWI and Mail) with matrix questionnaires (implementing a two-phased responsive survey design with experiments on contact mode and incentives)

The first survey phase tested different contact modes (simultaneous/concurrent vs. sequential/“web-push”) and incentive strategies (5 EUR prepaid vs. 10 EUR postpaid), resulting in four experimental groups (sequential prepaid, sequential postpaid, simultaneous prepaid, simultaneous postpaid). One invitation letter was followed by three reminder letters at maximum.

- All respondents in the simultaneous/concurrent contact mode condition were offered Mail and CAWI questionnaires right from the start with the advance letter.
  - Whereas respondents in the sequential contact mode condition (“web-push”) were offered CAWI questionnaires first, and Mail questionnaires later with the 2<sup>nd</sup> reminder.
  - During the first survey phase the incentive was dependent on the experimental group: the respondents either received a 5 EUR prepaid incentive (cash) with the advance letter or 10 EUR postpaid incentive (cash) mailed with a thank-you note after survey completion.
  - During the second survey phase all respondents received a 5 EUR prepaid incentive (cash) with the advance letter.
2. Mixed-Mode Survey (CAWI and Mail) with the full length questionnaire (only one condition applied: simultaneous contact mode with 5 Euros prepaid incentive).

The second survey phase used the best evaluated design from the first survey phase to complete the survey: simultaneous/concurrent contact mode with 5 EUR prepaid incentive. One invitation letter was followed by two reminder letters at maximum.

- All respondents were in the simultaneous/concurrent contact mode condition, where Mail and CAWI questionnaires were both offered right from the start with the advance letter.
- All respondents received a 5 EUR prepaid incentive (cash) with the advance letter.

## 6.2. Responsive design concept: variables

This section describes the variables starting with ‘mr\_’, which identify the features of the responsive design implemented in the self-administered mode in Germany (cf. Section 5).

### 6.2.1. Variables: mr\_detailed\_mode\_DE, mr\_contact\_mode\_DE, mr\_incentive\_DE

Table 14 and Table 15 provide an overview of the protocol variables and coding for the responsive design.

Table 14. Overview of the variables related to the responsive design (country: DE)

	Mode	mm_mixed_mode	mr_detailed_mode_de*	mr_contact_mode_de*	mr_incentive_de*
Interviewer-administered mode	1 CAPI	5 mixed mode not applied	1 CAPI (base sample) 2 CAPI (base follow-up) 3 CAPI (sample increase)	-4 item not included	3 ‘20 EUR postpaid’

Self-administered mode	3 CAWI 4 MAIL	1 mixed mode: full questionnaire	8 CAWI full length 9 Mail full length	2 Simultaneous	2 '5 EUR prepaid'
		3 mixed mode: matrix only	4 CAWI matrix (phase 1) 6 Mail matrix (phase 1)	1 Sequential 2 Simultaneous	1 '10 EUR postpaid' 2 '5 EUR prepaid'
			5 CAWI matrix (phase 2) 7 Mail matrix (phase 2)	2 Simultaneous	2 '5 EUR prepaid'

\*For all other countries/mode/designs, these variables will take value -4 'Item not included'

Table 15. Variables: mode, mr\_detailed\_mode\_DE, mr\_contact\_mode\_DE, mr\_incentive\_DE

Please note: these numbers can be obtained by merging the EVS Integrated dataset and the EVS Integrated dataset – Matrix Design Data

mode	mr_detailed_mode_DE	mr_contact_mode_DE		mr_incentive_DE		Total
		1 sequential	2 simultaneous	1 10 EUR postpaid	2 5 EUR prepaid	
3 CAWI	4 CAWI matrix (phase 1)	438	255	289	404	693
	5 CAWI matrix (phase 2)	0	211	0	211	211
	8 CAWI full length	0	117	0	117	117
4 Mail	6 Mail matrix (phase 1)	201	1,195	563	833	1,396
	7 Mail matrix (phase 2)	0	974	0	974	974
	9 Mail full length	0	571	0	571	571
		639	3,323	853	3,110	3,962

## 7. Missing values overview

Due to the specificity of the mixed-mode approach, several missing values have been designed. The overview can be found in Table 16.

Table 16. Overview of mixed-mode specific missing values

Mode	Missing value	Variable label	Explanation
CAWI/MAIL	-8	follow-up non response	This applies to respondents that refused to take the follow-up (or matrix 2 <sup>nd</sup> round)
	-9	no follow-up	This applies to situations when there is only the 1 <sup>st</sup> round of matrix but not the follow up (hence when questions have not been asked because of the group assignment)
	-10	multiple answers (Mail)	This applies to those respondents that wrongly selected multiple answers in the Mail questionnaire

## 8. Summary

This section introduces a variable that summarizes most of the mixed-mode characteristics, and provides an overview of all the variables described in the document.

### 8.1. Variable: **mm\_select\_sample**

The protocol variable **'mm\_select\_sample'** allows distinguishing seven different subsamples, combining information from the **'mm\_\***' variables and the behavior of respondents. In particular, categories 4 and 5 distinguish respondents that filled in the follow-up from those who did not (among those who were invited to do so), while category 7 identifies break off cases, that are only included in the Matrix Design Data. Break off cases are respondents that selected 'no answer' on more than 50% of the questions they were asked. Table 17 describes each category and how many respondents belonging to each group can be found in each dataset.

Table 17. Variable: mm\_select\_sample by dataset.

EVS Integrated dataset							EVS Integrated dataset – Matrix Design Data						
country	Total country sample <sup>a</sup>	1 interview er-administered (CAPI PAPI CATI)	2 self-administered full-length questionnaire: original question order (CAWI Mail)	3 self-administered full-length questionnaire: modified question order (CAWI Mail)	4 self-administered matrix: with follow-up (CAWI Mail)	Total	2 self-administered full-length questionnaire: original question order (CAWI Mail)	3 self-administered full-length questionnaire: modified question order (CAWI Mail)	4 self-administered matrix: with follow-up (CAWI Mail)	5 self-administered matrix: follow-up non response (CAWI Mail)	6 self-administered matrix: first survey only (CAWI Mail - DE)	7 break-off (less than 50% valid answers)	Total
CH	3,658	673	403	437	1661	3,174	403	437	1661	432		54	2,987
DE	5,456	1494	676			2,170	676				3237	49	3,962
DK	3,362	1696	1666			3,362							
FI	1,199	388	811			1,199							
IS	2,511	915	237		472	1,624	237		472	879		8	1,596
NL	2,739	686			1718	2,404			1,718	324		11	2,053

<sup>a</sup>can be obtained by merging the two datasets

## 8.2. Summary of mixed-mode variables

The coding of the different protocol variables described in the sections above is summarized in Table 18.

Table 18. Summary of mixed-mode protocol variables

	Description	Categories	Country
mode	mode used for the (1 <sup>st</sup> round) survey	1 CAPI 2 PAPI 3 CAWI 4 Mail 5 CATI	All EVS 2017 countries
mm_select_sample	Identifies subsamples on mode variables	1 interviewer-administered (CAPI PAPI CATI)	All countries
		2 self-administered full-length questionnaires: original question order (CAWI MAIL)	CH IS DE
		3 self-administered full-length questionnaires: modified question order (CAWI MAIL)	CH
		4 self-administered matrix: matrix and follow-up (CAWI Mail)	CH IS NL
		5 self-administered matrix: follow-up non response (CAWI Mail)	CH IS NL
		6 self-administered matrix: first survey only (CAWI Mail)	DE
		7 Break-off (less than 50% valid answers)	CH IS NL DE
mm_mixed_mode	mode and questionnaire assigned to respondents	1 mixed mode: full questionnaire	CH DE DK FI IS
		2 mixed mode: full (mod. order) questionnaire	CH
		3 mixed mode: matrix and follow-up	CH IS NL
		4 mixed mode: matrix only	DE
		5 mixed mode: not applied	All interviewer-administered
mm_mode_fu	mode used for the follow-up survey	1 CAWI (follow-up)	CH IS NL
		2 Mail (follow-up)	CH IS
		-3 not applicable	All interviewer-administered and self-administered: CH DE DK FI IS
		-8 follow-up non response	CH IS NL
		-9 no follow-up	DE
mm_matrix group	membership of questions in groups according to matrix design	1-6 Group 1-6	CH IS NL
		7 mixed mode: full questionnaire	CH DE DK FI IS
		8 mixed mode: full ( modified order) questionnaire	CH IS
		11-61 group 1-6 (matrix only)	DE
		-3 not applicable	All interviewer-administered
mr_detailed_mode_de	interview is part of	4 CAWI matrix (phase 1)	DE

	phase 1 or phase 2	5 CAWI matrix (phase 2) 6 Mail matrix (phase 1) 7 Mail matrix (phase 2)	
mr_contact_mode_de	Simultaneous (CAWI/Mail from start) Sequential (CAWI first)	1 sequential 2 simultaneous	DE
mr_incentive_de	5 EUR prepaid incentive (cash) 10 EUR postpaid incentive (cash)	1 10 EUR postpaid 2 5 EUR prepaid	DE

## 9. Practical Examples and Scenarios for the selection of cases

In the box, a concrete example on how to navigate the mixed-mode variables is provided.

### Example

In the following we compare the two matrix designs (matrix only/matrix and follow-up) using a concrete question/variable as an example. The result is given in Table 18 and Figure 6.

- The example is variable v9 (question Q4) 'Religious or church organisations'. This variable is assigned to question block C (see column Block) in the overview Matrix-Design: Question-Blocks [\[4\]](#) also reported in Figure 2.
- In this overview one can also see that v9 is in the first round survey assigned to matrix groups 2 [A C], 4 [B C], and 6 [C D]; and in the second round survey to matrix groups 1 [C D], 3 [B C], and 5 [A C].
- If the 'matrix and follow-up' design is applied, all respondents assigned to the matrix groups 1 to 6 were asked to answer the question.
- If 'matrix only' is the chosen design, only the respondents assigned to the matrix groups 2, 4, and 6 were asked this question; whereas respondents assigned to the matrix groups 1,3, or 5 were coded as missing value '-9 no follow-up'.
- If the 'matrix and follow-up' design is applied, respondents who were invited to the second round but refused to answer, were coded as missing values '-8 follow-up non response'.

Table 19. Matrix design: example for variable v9

Matrix group /Question block	v9 of block C 'matrix only'	v9 of block C 'matrix and follow-up'
Respondents of Matrix Group 1	-9 no follow-up	answers (or -8 follow-up non response)
Respondents of Matrix Group 2	answers	answers (or -8 follow-up non response)
Respondents of Matrix Group 3	-9 no follow-up	answers (or -8 follow-up non response)
Respondents of Matrix Group 4	answers	answers (or -8 follow-up non response)
Respondents of Matrix Group 5	-9 no follow-up	answers (or -8 follow-up non response)
Respondents of Matrix Group 6	answers	answers (or -8 follow-up non response)

Figure 6. Example from Matrix-Design: Question Blocks (see [\[4\]](#))



Question	Variable	Text	Block	Group					
				1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]
Q1	-	Please say, for each of the following, how important it is in your life.	Core	X	X	X	X	X	X
	v1	Work	Core	X	X	X	X	X	X
	v2	Family	Core	X	X	X	X	X	X
	v3	Friends and acquaintances	Core	X	X	X	X	X	X
	v4	Leisure time	Core	X	X	X	X	X	X
	v5	Politics	Core	X	X	X	X	X	X
	v6	Religion	Core	X	X	X	X	X	X
Q2	v7	Taking all things together, would you say you are: very happy - not at all happy	B	X	XX	XX	X	X	XX
Q3	v8	All in all, how would you describe your state of health these days? Would you say it is: very good - very poor	Core	X	X	X	X	X	X
Q4	-	Please look carefully at the following list of voluntary organisations and say which, if any, do you belong to?	C	XX	X	XX	X	XX	X
	v9	Religious or church organisations	C	XX	X	XX	X	XX	X
	v10	Education, arts, music or cultural activities	C	XX	X	XX	X	XX	X
	v11	Trade unions	C	XX	X	XX	X	XX	X
	v12	Political parties or groups	C	XX	X	XX	X	XX	X
	v13	Conservation, the environment, ecology, animal rights	C	XX	X	XX	X	XX	X
	v14	Professional associations	C	XX	X	XX	X	XX	X
	v15	Sports or recreation	C	XX	X	XX	X	XX	X
	v16	Humanitarian or charitable organization	C	XX	X	XX	X	XX	X
	v17	Consumer organization	C	XX	X	XX	X	XX	X
	v18	Self-help group, mutual aid group	C	XX	X	XX	X	XX	X
	v19	Other groups	C	XX	X	XX	X	XX	X
	v20	None (spontaneous)	C	XX	X	XX	X	XX	X

In this section, we provide practical indication on how to derive particular sets of data. The list is not exhaustive, but it is meant to provide guidance.

#### Scenario 1: Interviewer-administered mode

*When?* If you want to analyze data based on the main interviewer-administered mode only and exclude all self-administered interviews.

*Why?* This is the most conservative approach to achieve comparability across waves/countries.

*Which dataset?* All cases can be found in the EVS Integrated dataset.

*How?* Use one of the following options for the selection of cases:

- mm\_select\_sample = 1 'interviewer-administered (CAPI PAPI CATI)
- mode = 1 'CAPI' and 2 'PAPI' and 5 'CATI'.

The resulting dataset includes all 33 countries and altogether 47,195 cases.

#### Scenario 2: Full-length questionnaire across modes

*When?* If you want to retain only respondents that answered the full questionnaire, regardless if interviewer- or self-administered mode was applied and regardless the modified applied in the Swiss data.

*Why?* Even though mode differences could be present, the pattern of missing values by design due to the matrix design is avoided; also potential bias due to the different timing of data collection for the matrix design + follow up is avoided.

*Which dataset?* All cases can be found in the EVS Integrated dataset.

*How?* Use one of the following options for the selection of cases:

- mm\_select\_sample = 1 'interviewer-administered: CAPI PAPI CATI' and 2 'self-administered full-length questionnaires (original question order): CAWI MAIL' and 3 'self-administered full-length questionnaires (modified question order): CAWI MAIL'.
- mm\_mixed\_mode: 5 'mixed mode not applied' and 1 'mixed mode: full questionnaire' and 2 'mixed mode: full (mod. order) questionnaire'

The resulting dataset includes all 33 countries and 51,425 cases.

### **Scenario 3: Full length questionnaire across modes – retain original question order**

*When?* As Scenario 2, but excluding the Swiss subsample which received the modified-order full-length questionnaire.

*Why?* As Scenario 2, but you additionally avoid potential effects due to the different order of the questions.

*Which dataset?* All cases can be found in the EVS Integrated dataset.

*How?* Use one of the following options for the selection of cases:

- 'mm\_select\_sample' = 1 'interviewer-administered: CAPI PAPI CATI' and 2 'self-administered full-length questionnaires (original question order): CAWI MAIL'.

The resulting dataset includes all 33 countries and altogether 50,988 cases.

### **Scenario 4: Self-administered mode**

*When?* If you want to only analyze data from respondents that took the EVS survey in the self-administered mode (CAWI or Mail)

*Why?* For instance, you may be interested in exploring the measurement of values in a self-administered context.

*Which dataset?* Cases have to be retrieved from both the EVS Integrated dataset and the EVS Integrated dataset – Matrix Design Data.

*How?* We recommend the following steps:

- Merge EVS Integrated dataset and the EVS Integrated dataset – Matrix Design Data. (see also Appendix C with syntax examples);
- Exclude/drop 'mm\_select\_sample' = 1 interviewer-administered (CAPI PAPI CATI);
- According to the type of analysis to be performed, decide whether to retain break-off cases ('no answer' to more than 50% of the administered questions) [coded as mm\_select\_sample==7].

The resulting dataset includes 13,075 respondents from 6 countries, comprising also 122 break-off cases.

### **Scenario 5: Matrix design excluding the follow up**

*When?* If you want to analyze data from the first survey of the matrix design, excluding all answers respondents gave in the follow up survey.

*Why?* Reduce potential effects due to the timing of the survey and to the selection bias caused by the follow-up; include all (additionally DE) first round surveys into your analysis; apply multiple imputation techniques.

*Which dataset?* All cases can be found in the EVS Integrated dataset – Matrix Design Data.

*How?* We recommend the following steps:

- Use the “Follow-up removal” syntax which can be found in the Data Catalogue to define the variable blocks and set all variables that were asked in the follow-up survey to missing value (-9 ‘No follow-up’).
- Combine variable groups for all first round surveys: for CH, DE, NL, IS by using the two digit codes; for CH, NL, IS by recoding ‘mm\_matrix group’ from one digit to two digit codes (1 -> 11, 2 -> 22, etc.). Such recoding is also part of the “Follow-up removal” syntax.

This action affects the amount of missing values in variables (except for socio-demographic variables and a few variables belonging to the Core block) of the cases belonging to group 3 in the variable mm\_select\_sample. In total, this scenario involves 8,813 respondents from 4 countries.

## References

- [1] EVS2017-Methodological Guidelines  
<https://dbk.gesis.org/dbksearch/download.asp?id=65214>
- [2] EVS2017-Mixed mode Guidelines  
<https://dbk.gesis.org/dbksearch/download.asp?id=65218>
- [3] CAWI-Question-Design-CH.doc in ZA7500\_q\_ch.zip  
<https://dbk.gesis.org/dbksearch/download.asp?id=66246>
- [4] Matrix-Design: Question-Blocks  
<https://dbk.gesis.org/dbkedit18/download.asp?id=66263>
- [5] CAPI Master Questionnaire  
<https://dbk.gesis.org/dbkedit18/download.asp?id=65189>
- [6] CAWI Master Questionnaire  
<https://dbk.gesis.org/dbksearch/download.asp?id=66240>
- [7] Method Report (sampling etc.)  
<https://dbk.gesis.org/dbksearch/download.asp?id=65197>

## Appendix A – list of 277 questionnaire items

The following variable list is defined as 100% of variables (n=277):

v1	v2	v3	v4	v5	v6
v7	v8	v9	v10	v11	v12
v13	v14	v15	v16	v17	v18
v19	v20	v21	v22	v23	v24
v25	v26	v27	v28	v29	v30
v31	v32	v33	v34	v35	v36
v37	v38	v39	v40	v41	v42
v43	v44	v45	v45a	v46	v47
v48	v49	v50	v51	v52	v53
v54	v55	v56	v57	v58	v59
v60	v61	v62	v63	v64	v65
v66	v67	v68	v69	v70	v71
v72	v73	v74	v75	v76	v77
v78	v79	v80	v81	v82	v83
v84	v85	v86	v87	v88	v89
v90	v91	v92	v93	v94	v95
v96	v97	v98	v99	v100	v101
v102	v103	v104	v105	v106	v107
v108	v109	v110	v111	v112	v113
v114	v115	v116	v117	v118	v119
v120	v121	v122	v123	v124	v125
v126	v127	v128	v129	v130	v131
v132	v133	v134	v135	v136	v137
v138	v139	v140	v141	v142	v143
v144	v145	v146	v147	v148	v149
v150	v151	v152	v153	v154	v155
v156	v157	v158	v159	v160	v161
v162	v163	v164	v165	v166	v167
v168	v169	v170	v171	v172	v173
v174_cs	v175_cs	v176	v177	v178	v179
v180	v181	v182	v183	v184	v185
v186	v187	v188	v189	v190	v191
v192	v193	v194	v195	v196	v197
v198	v199	v200	v201	v202	v203
v204	v205	v206	v207	v208	v209
v210	v211	v212	v213	v214	v215
v216	v217	v218	v219	v220	v221
v222	v223	v224	v225	v226	v227
v228b_r	v229	v230	v231b_r	v232	
v233b_r	v234	v235	v236	v237	v238
v239a	v239b	v240	v241	v242	
v243_cs	v244	v245	v246_ISCO_2	v247	v248
v248a	v249	v250	v251b_r		
v252_cs	v253	v254	v255_ISCO_2	v256	v257
v258	v259	v260	v261		
v262_cs	v263_cs	v264	v265	v266	v267
v268	v269	v270	v271	v272	v273
v274					

- **Break-off case:** less than 50% of variables are answered by respondent (at least 50% of variables are missing values), i.e. at least
  - 139 variables are coded as “no answer” for respondents that answered the full questionnaire (CAPI and CAWI/Mail who answered the 2<sup>nd</sup> round)
  - For respondents that did **not** answer the 2<sup>nd</sup> round in CAWI/Mail mode (no follow up [DE] + FU refusal cases):
    - 85 variables are coded as “na” (for mm\_matrix\_group eq 1 or 3)
    - 84 variables are coded as “na” (for mm\_matrix\_group eq 2)
    - 81 variables are coded as “na” (for mm\_matrix\_group eq 4 or 6)
    - 82 variables are coded as “na” (for mm\_matrix\_group eq 5)

## Appendix B – Panel attrition

Table B1. Logit coefficients of logistic regression on participation to the second survey in case of matrix design with mini-panel design.

Independent variable	IS		CH		NL	
Constant	-2.876***	(0.548)	0.105	(0.323)	0.182	(0.462)
Male	Ref.		Ref.		Ref.	
Female	0.031	(0.122)	0.157	(0.117)	-0.005	(0.133)
18-24 years	Ref.		Ref.		Ref.	
25-34 years	0.060	(0.280)	0.207	(0.222)	-0.026	(0.260)
35-44 years	0.371	(0.297)	0.541*	(0.248)	0.378	(0.271)
45-54 years	0.552	(0.294)	0.721**	(0.256)	0.584*	(0.293)
55-64 years	1.169***	(0.298)	1.069***	(0.270)	1.581***	(0.320)
65-74 years	1.583***	(0.311)	1.329***	(0.303)	1.939***	(0.331)
75 and more years	0.815*	(0.395)	1.346***	(0.325)	1.640***	(0.374)
Lower educational level	Ref.		Ref.		Ref.	
Medium educational level	0.236	(0.167)	0.182	(0.164)	0.036	(0.185)
Higher educational level	0.551**	(0.172)	0.260	(0.188)	0.153	(0.175)
Holding non-national citizenship	Ref.		Ref.		Ref.	
Holding national citizenship	1.323**	(0.446)	0.553***	(0.147)	0.673	(0.347)
City	Ref.		Ref.		Ref.	
Town and suburb	-0.148	(0.140)	0.053	(0.160)		
Rural area	0.139	(0.167)	0.154	(0.169)		
Married/partnership	Ref.		Ref.		Ref.	
Widowed/Divorced/Separated	-0.029	(0.182)	-0.070	(0.174)	-0.395*	(0.181)
Never married	0.177	(0.204)	0.357*	(0.167)	0.073	(0.169)
CAWI mode	Ref.		Ref.		Ref.	
Mail mode	-0.036	(0.343)	-0.786***	(0.127)		
McFadden's Pseudo R2	0.058		0.044		0.071	
Observations	1316		2028		1970	

Standard errors in parentheses | \* p<0.05, \*\* p<0.01, \*\*\* p<0.001"

## Appendix C – Merging syntaxes

Examples of syntaxes to merge EVS Integrated dataset (main) and EVS Integrated dataset – Matrix Design Data (addon)

### Recommended procedure in SPSS

```
* Load files.
file handle main/Name="[Insert the file path to the EVS datasets\ insert name
of EVS Integrated dataset].sav".
file handle addon /Name="[Insert the file path to the EVS datasets\ insert
name of EVS Integrated dataset-Matrix Design Data].sav".
dataset close all.
Get file 'main' .
dataset name main.
Get file 'addon' .
dataset name addon.

DATASET ACTIVATE main.
FREQUENCIES fduplicate. /*check no. of duplicate cases.

* merge datasets based on id variable (id_cocas).
match files file = main / file = addon
      /by id_cocas.
EXECUTE.
dataset close main.
dataset close addon.

* check if no. of duplicate cases is the same as before: .
FREQUENCIES fduplicate.
```

### Recommended procedure in Stata

```
* set folder
global data "[Insert the file path to the EVS datasets]"

* load main dataset
u "$data/[insert name of EVS Integrated dataset].dta"
tab fduplicate // check how many duplicate cases are in this dataset.

* merge matrix design data
merge 1:1 id_cocas using "$data/[insert name of EVS Integrated dataset -
Matrix design data].dta"
tab fduplicate // no. of duplicate cases should be the same as above.
```

### Recommended procedure in Rstudio

```
# load packages (install if necessary)

##install.packages("haven")
##install.packages("dplyr")
library(haven) # to import spss and stata files
library(dplyr)

# load folder and data
```

```
setwd("[Insert the file path to the EVS datasets]")
main <- read_spss("[insert name of EVS Integrated dataset]")
addon <- read_spss("[insert name of EVS Integrated dataset - Matrix design
data]")

# check duplicate cases
count(main, fduplicate)

# merge data (key variable: id_cocas)
merged <- main %>%
  union(addon, by = "id_cocas")

# check duplicate cases
count(merged, fduplicate)
```



**EVS 17 - Matrix design - Questions/blocks**

The document describes the attribution of each question/variable of the EVS17 Master questionnaire to one of the five blocks.  
Groups allow identifying whether a question/variable was administered during the 1st round (**X**) or during the follow up (**XX**).  
Comments explain choices of attribution.  
Please note: for **DE**, the matrix structure is the same as the 1ST round (there was no follow up)

The matrix design was prepared by the EVS team in Switzerland, at FORS, in consultancy with the EVS Methodology Group.

Legend	
<b>X</b>	1st round
XX	follow up
<b>Core</b>	Block: Core
<b>A</b>	Block: A
<b>B</b>	Block: B
<b>C</b>	Block: C
<b>D</b>	Block: D

Question	Variable	Text	Block	Group						Comments
				1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	
Q1	-	Please say, for each of the following, how important it is in your life.	Core	X	X	X	X	X	X	Important to keep in Core Block. General statements about the importance of different aspects of life. Family, work, religion, politics correlate with the specific questions of each subject.
	v1	Work	Core	X	X	X	X	X	X	
	v2	Family	Core	X	X	X	X	X	X	
	v3	Friends and acquaintances	Core	X	X	X	X	X	X	
	v4	Leisure time	Core	X	X	X	X	X	X	
	v5	Politics	Core	X	X	X	X	X	X	
	v6	Religion	Core	X	X	X	X	X	X	
Q2	v7	Taking all things together, would you say you are: very happy - not at all happy	B	X	XX	XX	X	X	XX	In Block B because of high correlation (-.539) with satisfaction with life (in Core block)
Q3	v8	All in all, how would you describe your state of health these days? Would you say it is: very good - very poor	Core	X	X	X	X	X	X	No other question in questionnaire that asks about health, to have a proper, not imputed, measure of this variable, important to put it in the core.
Q4	-	Please look carefully at the following list of voluntary organisations and say which, if any, do you belong to?	C	XX	X	XX	X	XX	X	Important to keep all items together to measure membership in a voluntary organization; weak inter-correlations between the different organizations.
	v9	Religious or church organisations	C	XX	X	XX	X	XX	X	
	v10	Education, arts, music or cultural activities	C	XX	X	XX	X	XX	X	
	v11	Trade unions	C	XX	X	XX	X	XX	X	
	v12	Political parties or groups	C	XX	X	XX	X	XX	X	
	v13	Conservation, the environment, ecology, animal rights	C	XX	X	XX	X	XX	X	
	v14	Professional associations	C	XX	X	XX	X	XX	X	
	v15	Sports or recreation	C	XX	X	XX	X	XX	X	
	v16	Humanitarian or charitable organization	C	XX	X	XX	X	XX	X	
	v17	Consumer organization	C	XX	X	XX	X	XX	X	
	v18	Self-help group, mutual aid group	C	XX	X	XX	X	XX	X	
	v19	Other groups	C	XX	X	XX	X	XX	X	
	v20	None (spontaneous)	C	XX	X	XX	X	XX	X	
Q5	v21	Did you do voluntary work in the last 6 months? 1. Yes; 2. No; 8. DK; 9; NA	C	XX	X	XX	X	XX	X	Linked to Q4; keep them together
Q6	-	On this list are various groups of people. Could you identify any that you would not like to have as neighbours?	B	X	XX	XX	X	X	XX	Keep together because of weak intercorrelations and because of use in the literature (Arts 2006; Abela 2005; Doeblér 2014; Weber 2015; Ying-Chih 2013)
	v22	People of a different race	B	X	XX	XX	X	X	XX	
	v23	Heavy drinkers	B	X	XX	XX	X	X	XX	
	v24	Immigrants/foreign workers	B	X	XX	XX	X	X	XX	
	v25	Drug addicts	B	X	XX	XX	X	X	XX	
	v26	Homosexuals	B	X	XX	XX	X	X	XX	
	v27	Christians (optional in countries with Christian majority)	B	X	XX	XX	X	X	XX	
	v28	Muslims (optional in countries with Muslim majority)	B	X	XX	XX	X	X	XX	
	v29	Jews (optional)	B	X	XX	XX	X	X	XX	
	v30	Gypsies (optional question)	B	X	XX	XX	X	X	XX	
Q7	v31	Generally speaking, would you say that most people can be trusted or that you can't be too careful in dealing with people?	Core	X	X	X	X	X	X	In Core block because the question is used in different types of research, and often used as control. Literature: Oorschot 2008; Reeskens 2013; Schnabel 2012, 2014, 2015; Chuang 2013; Dingemans 2015
Q8	-	I would like to ask you how much you trust people from various groups. Could you tell me for each whether you trust people from this group completely, somewhat, not very much or not at all? ()	C	XX	X	XX	X	XX	X	More precise measure of trust. Radius of trust in other people. Because it represents social openness to others, put it in Block C.
	v32	Your family	C	XX	X	XX	X	XX	X	
	v33	People in your neighborhood	C	XX	X	XX	X	XX	X	
	v34	People you know personally	C	XX	X	XX	X	XX	X	
	v35	People you meet for the first time	C	XX	X	XX	X	XX	X	
	v36	People of another religion	C	XX	X	XX	X	XX	X	
	v37	People of another nationality	C	XX	X	XX	X	XX	X	
Q9	v38	Some people feel they have completely free choice and control over their lives, and other people feel that what they do has no real effect on what happens to them. Please use the scale to indicate how much freedom of choice and control you feel you have over the way your life turns out?	Core	X	X	X	X	X	X	In Core block because it is a basic question about perception of one's life
Q10	v39	All things considered, how satisfied are you with your life as a whole these days? Please use this card to help with your answer.	Core	X	X	X	X	X	X	In Core block because often used as a control variable in research
Q11	-	Here are some aspects of a job that people say are important. Please look at them and tell me which ones you personally think are important in a job?	A	X	X	X	XX	XX	XX	Battery kept all in block A because if items are separated, respondents may feel the list
	v40	Good pay	A	X	X	X	XX	XX	XX	
	v41	Good hours	A	X	X	X	XX	XX	XX	

Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
	v42	An opportunity to use initiative	A	X	X	X	XX	XX	XX	is incomplete.
	v43	Generous holidays	A	X	X	X	XX	XX	XX	
	v44	A job in which you feel you can achieve something	A	X	X	X	XX	XX	XX	
	v45	A responsible job	A	X	X	X	XX	XX	XX	
	V45a	None of these (spontaneous)	A	X	X	X	XX	XX	XX	
Q12	-	Do you agree or disagree with the following statements?	A-B	X	X	X	X	X	XX	Split according to inter-correlations and literature (Pretto 2012, Halman 2006) work duty towards society (.31), work always comes first (.243), people turn lazy (.315) humiliating to receive money withou working (.315), work duty towards society (.268) develop talents (.31), people turn lazy (.268), work always comes first (.409) develop talents (.243), work duty towards society (.409)
	v46	To fully develop your talents, you need to have a job	A	X	X	X	XX	XX	XX	
	v47	It is humiliating to receive money without having to work for it	B	X	XX	XX	X	X	XX	
	v48	People who don't work turn lazy	A	X	X	X	XX	XX	XX	
	v49	Work is a duty towards society	B	X	XX	XX	X	X	XX	
	v50	Work should always come first, even if it means less spare time	A	X	X	X	XX	XX	XX	
Q13	v51	Do you belong to a religious denomination?	Core	X	X	X	X	X	X	In Core block because of importance
Q13a	v52	Which one?	Core	X	X	X	X	X	X	Linked to Q13
Q14	v53	Did you ever belong to a religious denomination?	Core	X	X	X	X	X	X	Linked to Q13
Q15	V54	Apart from weddings, funerals and christenings, about how often do you attend religious services these days?	Core	X	X	X	X	X	X	In Core block because of importance
Q16	v55	Apart from weddings, funerals and christenings, about how often did you attend religious services when you were 12 years old?	Core	X	X	X	X	X	X	In Core block for a better fit with surrounding questions
Q17	v56	Independently of whether you go to church or not, would you say you are ...	B	X	XX	XX	X	X	XX	
Q18	-	Which, if any, of the following do you believe in?	B	X	XX	XX	X	X	XX	
	v57	God	B	X	XX	XX	X	X	XX	
	v58	Life after death	B	X	XX	XX	X	X	XX	
	v59	Hell	B	X	XX	XX	X	X	XX	
	v60	Heaven	B	X	XX	XX	X	X	XX	
Q19	v61	Do you believe in re-incarnation, that is, that we had past lives and will be born into this world again?	B	X	XX	XX	X	X	XX	
Q20	v62	Which of these statements comes closest to your beliefs?	B	X	XX	XX	X	X	XX	
Q21	v63	And how important is God in your life? Please use this card to indicate - 10 means very important and 1 means not at all important.	B	X	XX	XX	X	X	XX	
Q22	v64	How often do you pray outside of religious services? Would you say ... every day - never	B	X	XX	XX	X	X	XX	
Q23	-	Here is a list of things which some people think make for a successful marriage or partnership. Please tell me, for each one, whether you think it is very important, rather important or not very important?	A	X	X	X	XX	XX	XX	Battery kept all in block A because if items are separated, respondents may feel the list is incomplete. Moreover, weak inter-correlations: no predictions from importance of some items to the importance of others
	v65	Faithfulness	A	X	X	X	XX	XX	XX	
	v66	An adequate income	A	X	X	X	XX	XX	XX	
	v67	Good housing	A	X	X	X	XX	XX	XX	
	v68	Sharing household chores	A	X	X	X	XX	XX	XX	
	v69	Children	A	X	X	X	XX	XX	XX	
	v70	Having some time for one's own friends and for personal hobbies/activities	A	X	X	X	XX	XX	XX	
Q24	v71	Do you agree or disagree with the following statement: Marriage is an outdated institution?	A	X	X	X	XX	XX	XX	
Q25	-	For each of the following statements I read out, can you tell me how strongly you agree or disagree with each. Do you strongly agree, agree, disagree, or strongly disagree?	A-B	X	X	X	X	X	XX	Split according to literature (Davis 2009; Brandt 2011; Napier 2010)
	v72	When a mother works for pay, the children suffer	A	X	X	X	XX	XX	XX	
	v73	A job is alright but what most women really want is a home and children	B	X	XX	XX	X	X	XX	
	v74	All in all, family life suffers when the woman has a full-time job	B	X	XX	XX	X	X	XX	
	v75	A man's job is to earn money; a woman's job is to look after the home and family	A	X	X	X	XX	XX	XX	
	v76	On the whole, men make better political leaders than women do	B	X	XX	XX	X	X	XX	
	v77	A university education is more important for a boy than for a girl	B	X	XX	XX	X	X	XX	
	v78	On the whole, men make better business executives than women do	A	X	X	X	XX	XX	XX	
	v79	One of my main goals in life has been to make my parents proud	A	X	X	X	XX	XX	XX	
Q26	-	For each of the following statements I read out, can you tell me how strongly you agree or disagree with each. Do you strongly agree, agree, disagree, or strongly disagree?	A-C	X	X	X	X	XX	X	Different blocks because of low correlation between items (.215) and literature (v80: Oorschot 2008; v81: Takács 2013, Davis 2009)
	V80	When jobs are scarce, employers should give priority to [NATIONALITY] people over immigrants	C	XX	X	XX	X	XX	X	

Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
	V81	When jobs are scarce, men have more right to a job than women	A	X	X	X	XX	XX	XX	

Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
Q27	-	How would you feel about the following statements? Do you agree or disagree with them?	A	X	X	X	XX	XX	XX	Battery too short to be split
	v82	Homosexual couples are as good parents as other couples	A	X	X	X	XX	XX	XX	
	v83	It is a duty towards society to have children	A	X	X	X	XX	XX	XX	
	v84	Adult children have the duty to provide long-term care for their parents	A	X	X	X	XX	XX	XX	
Q28	-	Here is a list of qualities which children can be encouraged to learn at home. Which five would you say are the most desirable for a child to have? Please choose up to five!	A	X	X	X	XX	XX	XX	Kept all in block A to avoid methodological problems
	v85	Good manners	A	X	X	X	XX	XX	XX	
	v86	Independence	A	X	X	X	XX	XX	XX	
	v87	Hard work	A	X	X	X	XX	XX	XX	
	v88	Feeling of responsibility	A	X	X	X	XX	XX	XX	
	v89	Imagination	A	X	X	X	XX	XX	XX	
	v90	Tolerance and respect for other people	A	X	X	X	XX	XX	XX	
	v91	Thrift, saving money and things	A	X	X	X	XX	XX	XX	
	v92	Determination, perseverance	A	X	X	X	XX	XX	XX	
	v93	Religious faith	A	X	X	X	XX	XX	XX	
	v94	Unselfishness	A	X	X	X	XX	XX	XX	
	v95	Obedience	A	X	X	X	XX	XX	XX	
	v96	None (spontaneous)	A	X	X	X	XX	XX	XX	
Q29	v97	How interested would you say you are in politics?	D	XX	XX	X	XX	X	X	No need to put it in Core block because of high correlation (.773) with v5 (importance of politics in life)
Q30	-	Now I'd like you to look at this card. I'm going to read out some different forms of political action that people can take, and I'd like you to tell me, for each one, whether you have actually done any of these things, whether you might do it or would never, under any circumstances, do it.	D	XX	XX	X	XX	X	X	Kept all in block D because of not equilibrated answer categories; high intercorrelations; used in literature (Dickes 2011;
	v98	Signing a petition	D	XX	XX	X	XX	X	X	
	v99	Joining in boycotts	D	XX	XX	X	XX	X	X	
	v100	Attending lawful demonstrations	D	XX	XX	X	XX	X	X	
	v101	Joining unofficial strikes	D	XX	XX	X	XX	X	X	
Q31	v102	In political matters, people talk of 'the left' and the 'the right'. How would you place your views on this scale, generally speaking?	Core	X	X	X	X	X	X	In Core block because of importance
Q32	-	On this card you see a number of opposite views on various issues. How would you place your views on this scale?	C	XX	X	XX	X	XX	X	Kept all in Block C because of change in wording in item v105 (need to ensure that respondents interpret correctly)
	v103	Individuals should take more responsibility for providing for themselves - The state should take more responsibility to ensure that everyone is provided for	C	XX	X	XX	X	XX	X	
	v104	People who are unemployed should have to take any job available or lose their unemployment benefits - People who are unemployed should have the right to refuse a job they do not want	C	XX	X	XX	X	XX	X	
	v105	Competition is good - Competition is harmful	C	XX	X	XX	X	XX	X	
	v106	Incomes should be made more equal - There should be greater incentives for individual effort	C	XX	X	XX	X	XX	X	
	v107	Private ownership of business and industry should be increased - Government ownership of business and industry should be increased	C	XX	X	XX	X	XX	X	
Q33	v108	People sometimes talk about what the aims of this country should be for the next ten years. On this card are listed some of the goals which different people would give top priority. Would you please say which one of these you, yourself, consider the most important?	D	XX	XX	X	XX	X	X	Kept all in block D because of literature. Indicators of materialism/post-materialism (Inglehart 1977)
Q33a	v109	And which would be the next most important?	D	XX	XX	X	XX	X	X	
Q34	v110	If you had to choose, which of the things on this card would you say is more important?	D	XX	XX	X	XX	X	X	
Q35	v111	And which would be the next most important?	D	XX	XX	X	XX	X	X	
Q36	v112	Of course, we all hope that there will not be another war, but if it were to come to that, would you be willing to fight for your country?	B	X	XX	XX	X	X	XX	



Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
Q37	-	Here are two changes in our way of life that might take place in the near future. Please tell me for each one, if it were to happen whether you think it would be a good thing, a bad thing, or you do not mind.	A	X	X	X	XX	XX	XX	
	v113	Less importance placed on work in our lives	A	X	X	X	XX	XX	XX	
	v114	Greater respect for authority	A	X	X	X	XX	XX	XX	
Q38	-	Please look at this card and tell me, for each item listed, how much confidence you have in them, is it a great deal, quite a lot, not very much or none at all?	Core-B-C	X	X	X	X	X	X	Battery split because of length. The proposed split is based on correlations. For the Core block church, press, parliament , and major companies were retained because they could be considered as major influencers of our daily life.
	v115	The church	Core	X	X	X	X	X	X	
	v116	The armed forces	C	XX	X	XX	X	XX	X	Core block because linked to a lot of items on religiosity and traditionalism ; not easy to predict with othe confidence items as the correlations are "low".
	v117	The education system	B	X	XX	XX	X	X	XX	
	v118	The press	Core	X	X	X	X	X	X	Core block because correlations are not as "high" as for other correlations between confidence items
	v119	Trade unions	C	XX	X	XX	X	XX	X	
	v120	The police	B	X	XX	XX	X	X	XX	Core block because of high correlations with a lot of other confidence items. Even when other items are not asked, we can measure a tendency for those items.
	v121	Parliament	Core	X	X	X	X	X	X	
	v122	Civil service	B	X	XX	XX	X	X	XX	
	v123	The social security system	C	XX	X	XX	X	XX	X	
	v124	The European Union	B	X	XX	XX	X	X	XX	
	v125	United Nations Organization	C	XX	X	XX	X	XX	X	
	v126	Health care system	B	X	XX	XX	X	X	XX	
	v127	The justice system	C	XX	X	XX	X	XX	X	
	v128	Major companies	Core	X	X	X	X	X	X	Core block because correlations are not as "high" as for other correlations between confidence items
	v129	Environmental organizations	B	X	XX	XX	X	X	XX	
	v130	Political parties	C	XX	X	XX	X	XX	X	
	v131	Government	B	X	XX	XX	X	X	XX	
	v132	Social media	C	XX	X	XX	X	XX	X	
Q39	-	Many things are desirable, but not all of them are essential characteristics of democracy. Please tell me for each of the following things how essential you think it is as a characteristic of democracy. Use this scale where 1 means “not at all an essential characteristic of democracy” and 10 means it definitely is “an essential characteristic of democracy” ( )	D	XX	XX	X	XX	X	X	This question needs to be linked to the questions about how democratic your country is governed, to have a more specific identification of what people mean by democratic. Hence, put in Block D. Literature: de Regt 2013; Norris 2011; Miller, Hesli, & Reisinger, 1997
	v133	Governments tax the rich and subsidize the poor.	D	XX	XX	X	XX	X	X	
	v134	Religious authorities ultimately interpret the laws.	D	XX	XX	X	XX	X	X	
	v135	People choose their leaders in free elections.	D	XX	XX	X	XX	X	X	
	v136	People receive state aid for unemployment.	D	XX	XX	X	XX	X	X	
	v137	The army takes over when government is incompetent.	D	XX	XX	X	XX	X	X	
	v138	Civil rights protect people from state oppression.	D	XX	XX	X	XX	X	X	
	v139	The state makes people’s incomes equal.	D	XX	XX	X	XX	X	X	
	v140	People obey their rulers.	D	XX	XX	X	XX	X	X	
	v141	Women have the same rights as men.	D	XX	XX	X	XX	X	X	
Q40	v142	How important is it for you to live in a country that is governed democratically? On this scale where 1 means it is “not at all important” and 10 means “absolutely important” what position would you choose?	D	XX	XX	X	XX	X	X	Q39, Q40, Q41, Q42, & Q43 kept together because of same subject.
Q41	v143	And how democratically is this country being governed today? Again using a scale from 1 to 10, where 1 means that it is “not at all democratic” and 10 means that it is “completely democratic,” what position would you choose? ( )	D	XX	XX	X	XX	X	X	
Q42	v144	On a scale from 1 to 10 where “1” is “not satisfied at all” and “10” is “completely satisfied”, how satisfied are you with how the political system is functioning in your country these days?	Core	X	X	X	X	X	X	In Core block to have a question about satisfaction with political system (democracy) for all respondents

Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
Q43	-	I'm going to describe various types of political systems and ask what you think about each as a way of governing this country. For each one, would you say it is a very good, fairly good, fairly bad or very bad way of governing this country?	D	XX	XX	X	XX	X	X	Important to keep statements together. Statements about different governing forms, we want to get people's opinion on all the governing forms.
	v145	Having a strong leader who does not have to bother with parliament and elections	D	XX	XX	X	XX	X	X	
	v146	Having experts, not government, make decisions according to what they think is best for the country	D	XX	XX	X	XX	X	X	
	v147	Having the army rule the country	D	XX	XX	X	XX	X	X	
	v148	Having a democratic political system	D	XX	XX	X	XX	X	X	
Q44	-	Please tell me for each of the following whether you think it can always be justified, never be justified, or something in between, using this card	B-C	X	X	XX	X	X	X	<p>Split based on literature; Bosoni 2014 (Family and marriage: divorce, marijuana, abortion)</p> <p>Rossi 2014 (Marriage / children and religiosity: divorce, abortion, homosexuality, casual sex)</p> <p>Gundelach 1994; Draulans 2005 (investigating the patterns of religious and moral pluralism): personal interest; Andersen 2013 (personal interest)</p> <p>Gundelach 1994; Draulans 2005 (investigating the patterns of religious and moral pluralism): personal interest;</p> <p>Andersen 2013 (explores the validity of the claim for a spiritual revolution: personal interest morality)</p> <p>see pro-life values by Welzel; Ingelhart 2015 (to measure participating in war); Draulans 2005 (self-determination); Cohen 2006 (measured acceptance of euthanasia by religiosity, right to self-determination and some socio-demographic variables: self-determination); Andersen 2013 (explores the validity of the claim for a spiritual revolution: self-determination morality)</p> <p>Bosni 2014 (Family and marriage) ; see pro-life values by Welzel; Ingelhart 2015 (to measure participating in war); Clements 2013 tried to explain v154 through religious faith. ; Draulans 2005 (self-determination);Cohen 2006 (measured acceptance of euthanasia by religiosity, right to self-determination and some socio-demographic variables: self-determination); Andersen 2013 (explores the validity of the claim for a spiritual revolution: self-determination morality)</p> <p>Bosni 2014 (Family and marriage) ; see pro-life values by Welzel; Ingelhart 2015 (to measure participating in war); Clements 2013 tried to explain v154 through religious faith. ; Draulans 2005 (investigating the patterns of religious and moral pluralism): self-determination);Cohen 2006 (measured acceptance of euthanasia by religiosity, right to self-determination and some socio-demographic variables: self-determination); Andersen 2013 (explores the validity of the claim for a spiritual revolution: self-determination morality)</p> <p>Draulans 2005 (explaining religious and moral pluralism - moral dimension: self-determination); Cohen 2006 (measured acceptance of euthanasia by religiosity, right to self-determination and some socio-demographic variables); Andersen 2013 (self-determination)</p> <p>Draulans 2005 (self-determination); Cohen 2005 (personal choice)</p> <p>Draulans 2005 (self-determination); Cohen 2005 (personal choice)</p> <p>Gundelach 1994; Andersen 2013 (personal interest)</p> <p>Cohen 2005 (personal choice)</p> <p>Cohen 2005 (personal choice)</p>
	v149	Claiming state benefits which you are not entitled to	C	XX	X	XX	X	XX	X	
	v150	Cheating on tax if you have the chance	C	XX	X	XX	X	XX	X	
	v151	Taking the drugs marijuana or hashish	B	X	XX	XX	X	X	XX	
	v152	Someone accepting a bribe in the course of their duties	C	XX	X	XX	X	XX	X	
	v153	Homosexuality	B	X	XX	XX	X	X	XX	
	v154	Abortion	B	X	XX	XX	X	X	XX	
	v155	Divorce	B	X	XX	XX	X	X	XX	
	v156	Euthanasia (terminating the life of the incurably sick)	C	XX	X	XX	X	XX	X	
	v157	Suicide	B	X	XX	XX	X	X	XX	
	v158	Having casual sex	B	X	XX	XX	X	X	XX	
	v159	Avoiding a fare on public transport	C	XX	X	XX	X	XX	X	
	v160	Prostitution	B	X	XX	XX	X	X	XX	
	v161	Artificial insemination or in-vitro fertilization	B	X	XX	XX	X	X	XX	
	v162	Political violence	C	XX	X	XX	X	XX	X	
	v163	Death penalty	C	XX	X	XX	X	XX	X	
Q45	-	People have different views about themselves and how they relate to the world. Using this card, would you tell me how close do you feel to...?	B	X	XX	XX	X	X	XX	No split to make sure we get a scale of level of identification. Literature: Ariel 2016; Arts 2006
	v164	your town or city	B	X	XX	XX	X	X	XX	
	v165	your [county, region, district]	B	X	XX	XX	X	X	XX	
	v166	[COUNTRY]	B	X	XX	XX	X	X	XX	
	v167	[Continent; e.g. Europe]	B	X	XX	XX	X	X	XX	
	v168	World	B	X	XX	XX	X	X	XX	
Q46	v169	Do you have [COUNTRY'S] nationality?	Core	X	X	X	X	X	X	Q46 and Q47 kept together because of filter in Q46. Quesitons linked to national identification
Q47	v170	How proud are you to be a [COUNTRY] citizen?	Core	X	X	X	X	X	X	
Q48	-	When elections take place, do you vote always, usually or never? Please tell me separately for each of the following levels ()	D	XX	XX	X	XX	X	X	
	v171	Local level	D	XX	XX	X	XX	X	X	
	v172	National level	D	XX	XX	X	XX	X	X	
	v173	European level (only for EU countries)	D	XX	XX	X	XX	X	X	

Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
Q49	v174	Which (political) party appeals to you most? ()	D	XX	XX	X	XX	X	X	
Q49a	v175	Is there another party that appeals to you?	D	XX	XX	X	XX	X	X	
Q50	-	In your view, how often do the following things occur in this country's elections?	D	XX	XX	X	XX	X	X	
	v176	Votes are counted fairly	D	XX	XX	X	XX	X	X	
	v177	Opposition candidates are prevented from running	D	XX	XX	X	XX	X	X	
	v178	TV news favors the governing party	D	XX	XX	X	XX	X	X	
	v179	Voters are bribed	D	XX	XX	X	XX	X	X	
	v180	Journalists provide fair coverage of elections	D	XX	XX	X	XX	X	X	
	v181	Election officials are fair	D	XX	XX	X	XX	X	X	
	v182	Rich people buy elections	D	XX	XX	X	XX	X	X	
	v183	Voters are threatened with violence at the polls	D	XX	XX	X	XX	X	X	
Q51	v184	Now we would like to know your opinion about the people from other countries who come to live in [your country] - the immigrants. How would you evaluate the impact of these people on the development of [your country]? [...]	Core	X	X	X	X	X	X	Important to have a question about immigration in the Core block: this is a question that is often used these days
Q52	-	Please look at the following statements and indicate where you would place your views on this scale?	C	XX	X	XX	X	XX	X	
	v185	Immigrants take jobs away from [NATIONALITY] - Immigrants do not take jobs away from [NATIONALITY]	C	XX	X	XX	X	XX	X	
	v186	Immigrants make crime problems worse - Immigrants do not make crime problems worse	C	XX	X	XX	X	XX	X	
	v187	Immigrants are a strain on a country's welfare system - Immigrants are not a strain on a country's welfare system	C	XX	X	XX	X	XX	X	Literature: Weber 2015; Callens 2016; Arts 2006
	v188	It is better if immigrants maintain their distinct customs and traditions - It is better if immigrants do not maintain their distinct customs	C	XX	X	XX	X	XX	X	
Q53	-	Some people say the following things are important for being truly [NATIONALITY]. Others say they are not important. How important do you think each of the following is?	B	X	XX	XX	X	X	XX	
	v189	To have been born in [COUNTRY]	B	X	XX	XX	X	X	XX	
	v190	To respect [COUNTRY]'s political institutions and laws	B	X	XX	XX	X	X	XX	
	v191	To have [COUNTRY]'s ancestry	B	X	XX	XX	X	X	XX	
	v192	To be able to speak [THE NATIONAL LANGUAGE] [NOTE: if more than one national languages, ask the national languages]	B	X	XX	XX	X	X	XX	
	v193	To share [NATIONAL] culture	B	X	XX	XX	X	X	XX	
Q54	-	People differ in what they think it means to be European. In your view, how important is each of the following to be European?	B	X	XX	XX	X	X	XX	
	v194	To be born in Europe	B	X	XX	XX	X	X	XX	
	v195	To have European ancestry	B	X	XX	XX	X	X	XX	
	v196	To be a Christian	B	X	XX	XX	X	X	XX	
	v197	To share European culture	B	X	XX	XX	X	X	XX	
Q55	v198	Some say that the European Union enlargement should go further. Others say it has already gone too far. Using this card, which number best describes your position, where '1' means "should go further", and '10' means "has already gone too far"?	C	XX	X	XX	X	XX	X	High correlation with confidence in Eu (.486) which is in block B.
Q56	-	How much do you agree or disagree with each of these statements?	D	XX	XX	X	XX	X	X	
	v199	I would give part of my income if I were certain that the money would be used to prevent environmental pollution	D	XX	XX	X	XX	X	X	
	V200	It is just too difficult for someone like me to do much about the environment	D	XX	XX	X	XX	X	X	
	v201	There are more important things to do in life than protect the environment	D	XX	XX	X	XX	X	X	
	v202	There is no point in doing what I can for the environment unless others do the same	D	XX	XX	X	XX	X	X	
	v203	Many of the claims about environmental threats are exaggerated	D	XX	XX	X	XX	X	X	Both in block D because of similar topic; and because also political orientation (linked to v203) is in Block D
Q57	v204	Here are two statements people sometimes make when discussing the environment and economic growth. Which of them comes closer to your own point of view? (Read out and code one answer):	D	XX	XX	X	XX	X	X	



Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
Q58	-	Do you think that the [COUNTRY] government should or should not have the right to do the following:	D	XX	XX	X	XX	X	X	
	v205	Keep people under video surveillance in public areas	D	XX	XX	X	XX	X	X	
	v206	Monitor all e-mails and any other information exchanged on the Internet	D	XX	XX	X	XX	X	X	
	v207	Collect information about anyone living in (COUNTRY) without their knowledge	D	XX	XX	X	XX	X	X	
Q59	-	How often do you follow politics...	D	XX	XX	X	XX	X	X	
	v208	... on television	D	XX	XX	X	XX	X	X	
	v209	... on the radio	D	XX	XX	X	XX	X	X	
	v210	... in the daily papers	D	XX	XX	X	XX	X	X	
	v211	... on social media ()	D	XX	XX	X	XX	X	X	
Q60	-	To what extent do you feel concerned about the living conditions of:	C	XX	X	XX	X	XX	X	
	v212	People in your neighbourhood	C	XX	X	XX	X	XX	X	
	v213	The people of the region you live in	C	XX	X	XX	X	XX	X	
	v214	Your fellow countrymen	C	XX	X	XX	X	XX	X	
	v215	Europeans	C	XX	X	XX	X	XX	X	
	v216	All humans all over the world	C	XX	X	XX	X	XX	X	
Q61	-	To what extent do you feel concerned about the living conditions of the following groups living in your country:	C	XX	X	XX	X	XX	X	
	v217	elderly people	C	XX	X	XX	X	XX	X	
	v218	unemployed people	C	XX	X	XX	X	XX	X	
	v219	immigrants	C	XX	X	XX	X	XX	X	
	v220	sick and disabled people	C	XX	X	XX	X	XX	X	
Q62	-	What should a society provide? Please tell me for each statement if it is important or unimportant to you:	D	XX	XX	X	XX	X	X	
	v221	Eliminating big inequalities in income between citizens	D	XX	XX	X	XX	X	X	
	v222	Guaranteeing that basic needs are met for all, in terms of food, housing, clothing, education, health	D	XX	XX	X	XX	X	X	
	v223	Recognizing people on their merits	D	XX	XX	X	XX	X	X	
	v224	Protecting against terrorism	D	XX	XX	X	XX	X	X	
Q63	v225	Sex of respondent	Core	X	X	X	X	X	X	
Q64	v226	Can you tell me your year of birth, please	Core	X	X	X	X	X	X	
Q65	v227	Were you born in [COUNTRY]?	Core	X	X	X	X	X	X	
Q66	v228	In which country were you born?	Core	X	X	X	X	X	X	
Q67	v229	Can you tell me in which year you first came to live in [COUNTRY]	Core	X	X	X	X	X	X	
Q68	v230	Was your father born in [COUNTRY]?	Core	X	X	X	X	X	X	
Q69	v231	In which country was your father born?	Core	X	X	X	X	X	X	
Q70	v232	Was your mother born in [COUNTRY]?	Core	X	X	X	X	X	X	
Q71	v233	In which country was your mother born?	Core	X	X	X	X	X	X	
Q72	v234	What is your current legal marital status?	Core	X	X	X	X	X	X	
Q73	v235	Did you live together with your partner before your marriage or before the registration of your partnership?	Core	X	X	X	X	X	X	
Q74	v236	Do you live with a partner?	Core	X	X	X	X	X	X	
Q75	v237	Do you have a steady relationship?	Core	X	X	X	X	X	X	
Q76	v238	Do you live with your parents or your parents in law?	Core	X	X	X	X	X	X	
Q77	-	How many children do you have? Please tell me how many of them live in your household and how many live elsewhere:	Core	X	X	X	X	X	X	
	v239a	Number of children in household:	Core	X	X	X	X	X	X	
	v239b	Number of children outside household:	Core	X	X	X	X	X	X	
Q78	v240	Including yourself, how many people – including children – live here regularly as members of this household?	Core	X	X	X	X	X	X	
Q79	v241	And what is the age of the youngest person in your household?	Core	X	X	X	X	X	X	
Q80	v242	At what age did you complete your full time education, either at school or at an institution of higher education? Please exclude apprenticeships.	Core	X	X	X	X	X	X	
	v242	At what age do you expect you will have completed your education?	Core	X	X	X	X	X	X	
Q81	v243	What is the highest educational level that you have attained?:	Core	X	X	X	X	X	X	

Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
Q82	v244	Are you yourself gainfully employed at the moment or not? Please select from the card the employment status that applies to you.	Core	X	X	X	X	X	X	
Q83	v245	In your LAST job were you employed (either full time or part time) or were you self-employed?	Core	X	X	X	X	X	X	
Q84	v246	What is the name or title of your main job?	Core	X	X	X	X	X	X	
	v246a	What was the name or title of your main job?	Core	X	X	X	X	X	X	
Q84a	v246b	In your main job, what kind of work do/did you do most of the time?	Core	X	X	X	X	X	X	
	v246c	In your main job, what kind of work did you do most of the time?	Core	X	X	X	X	X	X	
Q85	v247	How many employees do/did you have?	Core	X	X	X	X	X	X	
Q86	v248	Do/did you have any responsibility for supervising the work of other employees?	Core	X	X	X	X	X	X	
Q86a	v248a	How many other employees do/did you supervise?	Core	X	X	X	X	X	X	
Q87	v249	Do you work for?	Core	X	X	X	X	X	X	
Q88	v250	Was your partner/spouse born in ... [COUNTRY]?	A	X	X	X	XX	XX	XX	Detailed questions about partner in Block A
Q88a	v251a	In which country was your spouse/partner born?	A	X	X	X	XX	XX	XX	
Q89	v252	What is the highest educational level that your spouse or partner has attained?	A	X	X	X	XX	XX	XX	
Q90	v253	Is your spouse/partner gainfully employed at the moment or not? Please select from the card the employment status that applies to your spouse/partner.	A	X	X	X	XX	XX	XX	
Q91	v254	In his/her LAST job was he/she employed (either full time or part time) or was he/she self-employed?	A	X	X	X	XX	XX	XX	
Q92	v255a	What is/was the name or title of your partner's main job?	A	X	X	X	XX	XX	XX	
Q92a	v255b	In his or her main job, what kind of work do/did your partner most of the time?	A	X	X	X	XX	XX	XX	
Q93	v256	How many employees does/did he or she have?	A	X	X	X	XX	XX	XX	
Q94	v257	Does/did he or she have any responsibility for supervising the work of other employees?	A	X	X	X	XX	XX	XX	
Q95	v258	How many other employees does/did he or she supervise?	A	X	X	X	XX	XX	XX	
Q96	v259	During the last five years, have you experienced a continuous period of unemployment longer than 3 months?	Core	X	X	X	X	X	X	
Q97	v260	During the last five years, have you been dependent on social security at any time?	Core	X	X	X	X	X	X	
Q98	v261	Here is a list of incomes and we would like to know in what group your household is, counting all wages, salaries, pensions and other incomes that come in. Just give the letter of the group your household falls into, after taxes and other deductions.	Core	X	X	X	X	X	X	

Question	Variable	Text	Block	1 [A B Core] [C D]	2 [A C Core] [B D]	3 [A D Core] [B C]	4 [B C Core] [A D]	5 [B D Core] [A C]	6 [C D Core] [A B]	Comments
Q99	v262	What is the highest educational level that your father has attained?:	A	X	X	X	XX	XX	XX	
Q100	v263	What is the highest educational level that your mother has attained?:	A	X	X	X	XX	XX	XX	
Q101	v264	When you were 14, was your father employed, self-employed or not?	A	X	X	X	XX	XX	XX	
Q102	v265	When you were 14, was your mother employed, self-employed or not?	A	X	X	X	XX	XX	XX	
Q103	v266	When you were 14, which of the following groups did your parent who was the main earner belonged to?	A	X	X	X	XX	XX	XX	
Q104	-	When you think about your parents when you were about 14 years old, could you say whether these statements correctly describe your parents?	A	X	X	X	XX	XX	XX	Detailed questions about parents in Block A
	v267	My mother liked to read books	A	X	X	X	XX	XX	XX	
	v268	I discussed politics at home with my mother	A	X	X	X	XX	XX	XX	
	v269	My mother liked to follow the news	A	X	X	X	XX	XX	XX	
	v270	My parent(s) had problems making ends meet	A	X	X	X	XX	XX	XX	
	v271	My father liked to read books	A	X	X	X	XX	XX	XX	
	v272	I discussed politics at home with my father	A	X	X	X	XX	XX	XX	
	v273	My father liked to follow the news	A	X	X	X	XX	XX	XX	
	v274	My parent(s) had problems replacing broken things	A	X	X	X	XX	XX	XX	
Q105	v275a	Region	Core	X	X	X	X	X	X	
Q106	v276	Size of town	Core	X	X	X	X	X	X	