

Central self-completion tooling for ESS round 11

Introducing DataCTRL survey tool suite for ESS Round 11 self-completion experiment

Marcel Das
Eric Balster
Iggly van der Wielen



Independent research institute for data collection and applied research

Housed at the campus of Tilburg University

Currently about 50 persons employed, plus several student assistants

Centerdata mainly works for:

- the academic community
- policy makers / government institutions
- European Commission

Centerdata's core activities



Survey

Research

- Online (panel) surveys
- Target groups
- Experiments
- Data dissemination



IT

- Software development



Policy Research & Analytics

- Forecast labour market (Education)



Consumer Research

- Behavioural research



Data Science

- Machine learning
- Deep learning
- Text analytics
- Data maturity
- Data visualisation

LISS panel

- Online panel of about 5,000 households, comprising of 7,500 individuals (16+)
- Online interviews as method, but:
 - Probability sample drawn by Statistics Netherlands, from address sampling frame
 - Includes households without Internet access: equipment provided (SimPC)
- Questionnaires each month, 30 minutes
- Incentive € 15 per hour (average)



Introduction

- Around **2014** ESS started using **TranslationCTRL** for management of the translation process
- During **Round 8** the **CaseCTRL** and **SampleCTRL** for standardizing the **contact form** were developed
- In **Round 9** **FieldworkCTRL** (FMMS) was used to monitor fieldwork **progress** for all participating countries
- In **Round 11 and 12** 15 countries use the complete DataCTRL tool suite including **QuestionnaireCTRL** for their face-to-face fieldwork



Experiment Round 11 self completion

- In Round 11 three F2F tool suite countries and two non tool suite countries will experiment with self-completion fieldwork
- Subset of their regular gross sample
- Fieldwork supported by:
 - QuestionnaireCTRL (Quest)
 - TranslationCTRL
 - ClassificationCTRL (job coder)
 - **SurveyCTRL** (to collect data and monitor fieldwork)
 - Adobe InDesign (PDF)



Specifications questionnaires



Round 11 CAPI



Web question naire



Paper question naire



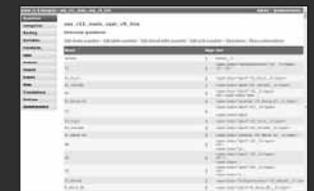
InDesign



Round 11 Self-completion



QuestionnaireCTRL



Web questionnaire

- Responsive design option
- In-house developed questionnaire engine
- Flexible development roadmap
- Easily adaptable to customer needs
- GDPR compliant



QuestionnaireCTRL

A screenshot of a web browser displaying a questionnaire in three languages: English, Deutsch, and Nederlands. The browser address bar shows 'ess.centerdata.nl/be/'. The page header includes the 'European Social Survey' logo and 'CENTERDATA'. The content is organized into three columns, each with a language selector button at the top. The English column is titled 'Welcome to Living in Belgium' and contains instructions for users, including a list of tips for navigating the survey. The Deutsch column is titled 'Willkommen bei Leben in Belgien' and contains the same instructions in German. The Nederlands column is titled 'Welkom bij Wonen in België' and contains the same instructions in Dutch. Each column has a corresponding navigation button at the bottom: 'NEXT ->', 'NÄCHSTE ->', and 'VOLGENDE ->'.

Web questionnaire - 2

- Responsive design option
- In-house developed questionnaire engine
- Flexible development roadmap
- Easily adaptable to customer needs
- GDPR compliant



QuestionnaireCTRL

A screenshot of a web browser displaying a questionnaire welcome page. The browser's address bar shows the URL 'ess.centerdata.nl/qst11/index.php'. The page content includes a heading 'Welcome to Living in [Country].', a thank-you message, and three bullet points providing instructions on how to navigate the survey. At the bottom, there is a 'Next' button with a right-pointing arrow.

Questionnaire

ess.centerdata.nl/qst11/index.php

Welcome to Living in [Country].

Thank you for taking part in the survey. As a token of appreciation, we will send you a cash incentive when we receive your completed questionnaire.

- If you do not know the answer to a question or would prefer not to give your answer, you can leave it blank and move to the next question by clicking the NEXT button (right arrow).
- If you make a mistake or change your mind, you can click the BACK button (left arrow) and amend your answer.
- If you cannot finish the survey in one go, you can come back later and it will start from the point you left. You will need to re-enter your serial number each time you access the survey so please keep hold of this.

To start the survey press the NEXT button (right arrow).

Next

A screenshot of a web browser displaying a questionnaire question page. The browser's address bar shows the URL 'ess.centerdata.nl/qst11/index.php'. The page content includes a question 'How worried are you about climate change?' and five radio button options: 'Not at all worried', 'Not very worried', 'Somewhat worried', 'Very worried', and 'Extremely worried'. The 'Somewhat worried' option is selected. At the bottom, there are 'Back' and 'Next' buttons with left and right arrows respectively.

Questionnaire

ess.centerdata.nl/qst11/index.php

How worried are you about climate change?

- Not at all worried
- Not very worried
- Somewhat worried
- Very worried
- Extremely worried

Back

Next

Paper & pencil version

{INTRO_SectionA_0}

{INTRO_SectionA_1}

{INTRO_SectionA_2}

{INTRO_SectionA_3}

{NextBirthday_0}

{NextBirthday_2}

yes-
no_1

yes-
no_2

{NextBirthday_3}

{AgeCheck_0}

{ans_T_Age-
Check_1} → {AgeCheck_1}

{ans_T_Age-
Check_2} → {AgeCheck_2}

{ParentalConsent_1}

{ans_T_ParentalConsent_1}

→ {ParentalConsent_2}

{AA1_0}

{AA3_0}

A3 {AA3_1}

{ans_T_AA3_1}

{ans_T_AA3_2}

{ans_T_AA3_3}

{ans_T_AA3_4}

{ans_T_AA3_5}

A4 {AA4_0}

{ans_T_AA4_1}

{ans_T_AA4_2}

{ans_T_AA4_3}

{ans_T_AA4_4}



We are very grateful that you are taking the time to complete our questionnaire.

Please complete the questionnaire using BLACK or BLUE INK.

If you do not know the answer to a question or would prefer not to give an answer, you may leave the question blank.

If you make a mistake or change your mind, please completely fill the box or circle "F_square" to show the mistake and then tick the correct answer.

ANSWER THESE QUESTIONS FIRST:

Are you the person aged 15 or over in your household who has the next birthday?

Yes

No

IF 'NO': Please ask the person aged 15 or over who has the next birthday to complete the survey. When they start, they should change the answer here to 'Yes'.

Are you...?

Aged 18 or over → Now go to section A

Aged under 18 → Please answer the question below

IF AGED UNDER 18: You are required to obtain

SECTION A

In this first section we will ask you about a variety of different topics, starting with your neighbourhood. Please think of the area within a few minutes walking distance from your home.

A1 How strongly do you feel you belong to your neighbourhood?

Very strongly

Fairly strongly

Not very strongly

Not at all strongly

A2 How often do you chat to your neighbours, more than to just say hello?

On most days

Once or twice a week

Once or twice a month

Less than once a month

Never

I don't have any neighbours

The next two questions are about your local area. Please think of the minutes walking distance from



Paper & pencil version - 2

<personalid>CA>

LIVING IN [COUNTRY]

We are asking for your help. Each year a carefully selected sample of households is asked to complete a survey about life in [Country]. This year we ask for your views on such topics as the area where you live, how well the government is doing its job, and about the environment.

The survey should be completed by the person in your household aged 15 or over who has the next birthday.

Not everyone will need to answer all the questions in this booklet and if you prefer you can answer the survey online (the letter sent with this questionnaire explains how to do that).

Thank you for taking part in the survey.



Any Questions?
If you have any questions about this questionnaire, or about the Living in [Country] survey, please contact us using the details below.
tel: [Telephone No.]
e-mail: [e-mail address] or visit www.europeansocialsurvey.org

All responses will be treated in the strictest confidence and in accordance with the EU's General Data Protection Regulation (GDPR).

[Logo]

We are very grateful that you are taking the time to complete our questionnaire.

Please complete the questionnaire using **BLACK** or **BLUE INK**.

If you do not know the answer to a question or would prefer not to give an answer, you may leave the question blank.

If you make a mistake or change your mind, please completely fill the box or circle "E" square: to show the mistake and then tick the correct answer.

ANSWER THESE QUESTIONS FIRST:

Are you the person aged 15 or over in your household who has the next birthday?

Yes
 No

IF 'NO'. Please ask the person aged 15 or over who has the next birthday to complete the survey. When they start, they should change the answer here to 'Yes'.

Are you...?

Aged 18 or over → Now go to section A
 Aged under 18 → Please answer the question below

IF AGED UNDER 18: You are required to obtain permission from a parent/guardian in order to complete this survey. Please complete below.

I confirm I have permission from a parent/guardian to complete this survey

→ Once you have permission, go to section A



SECTION A

► In this first section we will ask you about a variety of different topics, starting with your neighbourhood. Please think of the area within a few minutes walking distance from your home.

A1 How strongly do you feel you belong to your neighbourhood?

Very strongly
 Fairly strongly
 Not very strongly
 Not at all strongly

A2 How often do you chat to your neighbours, more than to just say hello?

On most days
 Once or twice a week
 Once or twice a month
 Less than once a month
 Never
 I don't have any neighbours

► The next two questions refer to your wider local area. Please think of the area within 15-20 minutes walking distance from your home.

A3 Overall, how satisfied or dissatisfied are you with your local area as a place to live?

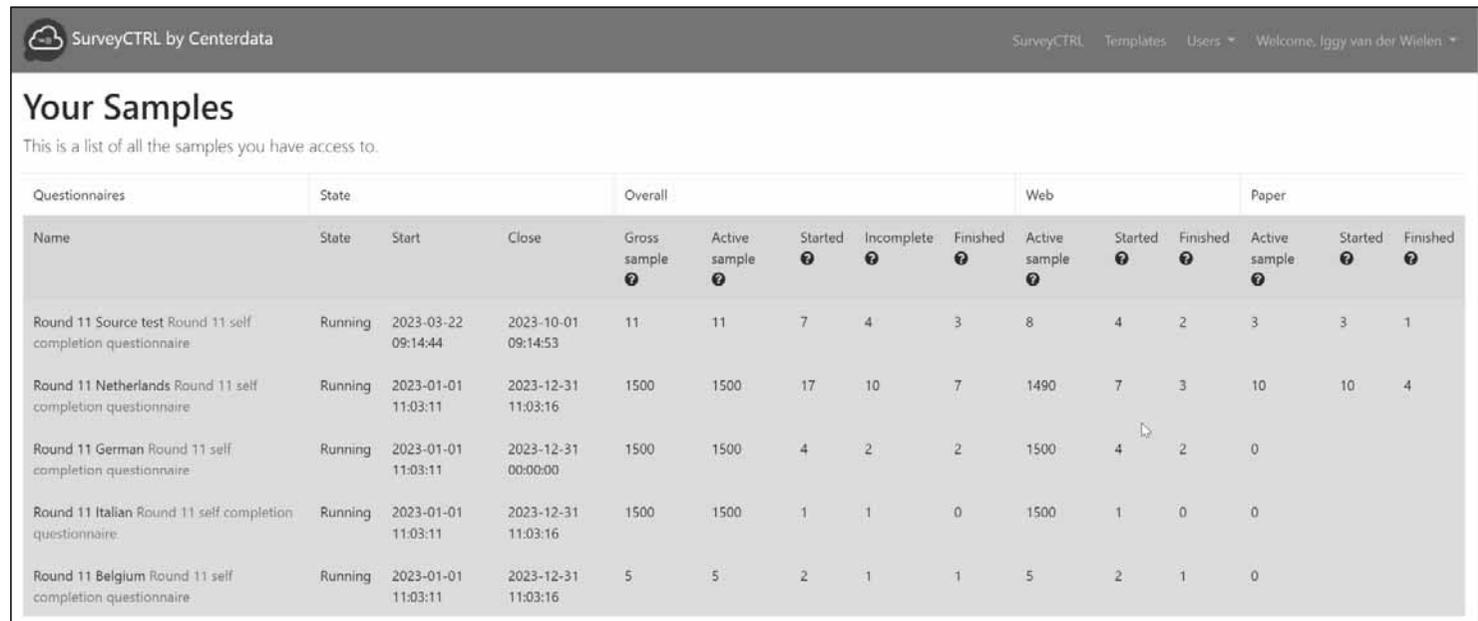
Very satisfied
 Fairly satisfied
 Neither satisfied nor dissatisfied
 Fairly dissatisfied
 Very dissatisfied

A4 Do you think that over the past two years your area has...

Got better to live in
 Got worse to live in
 Not changed much (has not got better or worse)
 I have not lived here long enough to say

Data collection

- **Monitoring progress** per sample with access control list
- Separate Data entry questionnaire for data entry role
- Interview data daily available



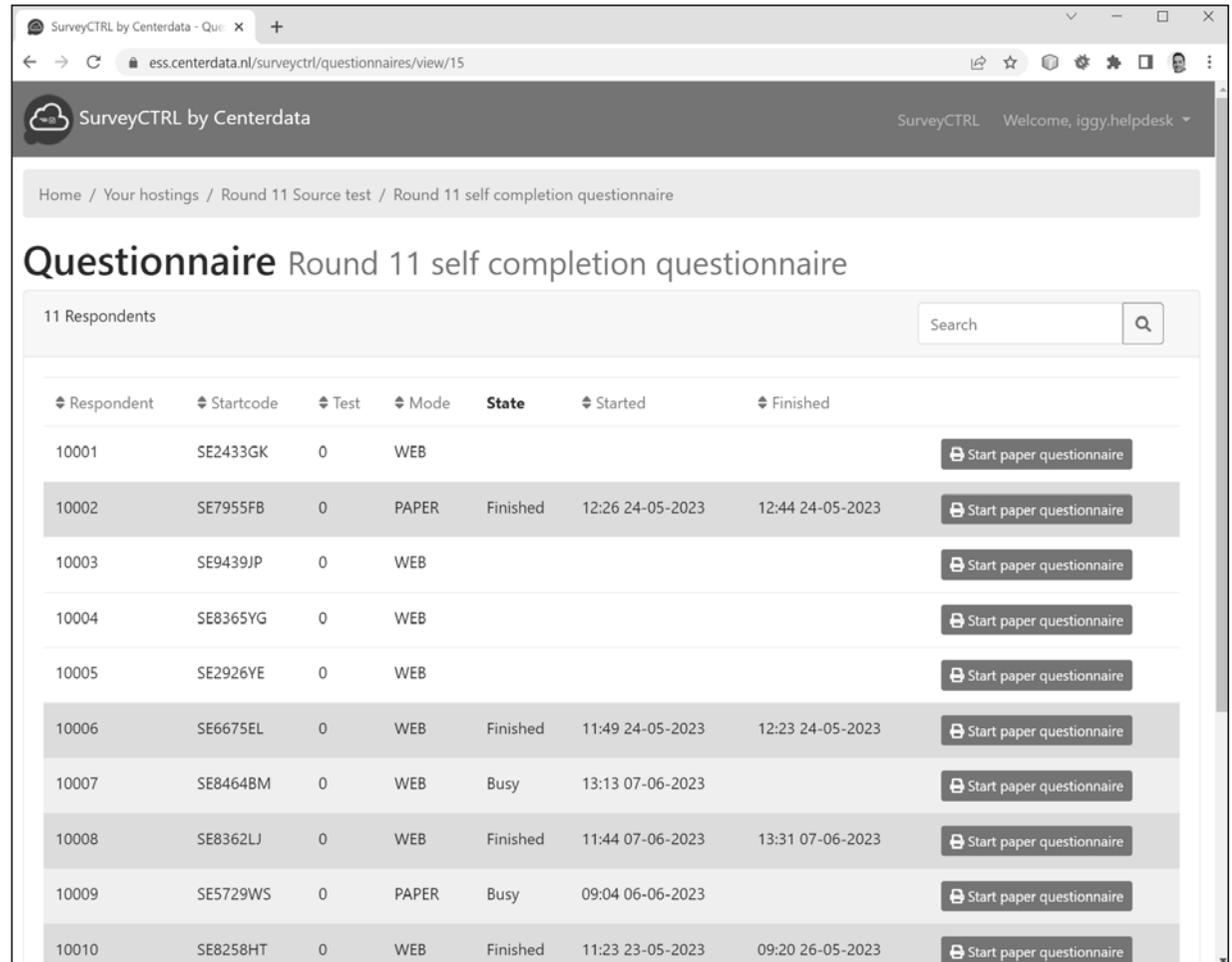
The screenshot shows the SurveyCTRL interface. At the top, there is a navigation bar with the SurveyCTRL logo and the text "SurveyCTRL by Centerdata". On the right side of the navigation bar, there are links for "SurveyCTRL", "Templates", "Users", and a user profile "Welcome, Iggy van der Wielen". Below the navigation bar, the main heading is "Your Samples", followed by the text "This is a list of all the samples you have access to." The main content is a table with columns for "Questionnaires", "State", "Overall", "Web", and "Paper". The "Overall" column is further divided into "Gross sample" and "Active sample". The "Web" column is divided into "Active sample", "Started", and "Finished". The "Paper" column is divided into "Active sample", "Started", and "Finished". The table contains five rows of data, each representing a different survey sample.

Questionnaires	State			Overall			Web			Paper				
	Name	State	Start	Close	Gross sample	Active sample	Started	Incomplete	Finished	Active sample	Started	Finished	Active sample	Started
Round 11 Source test Round 11 self completion questionnaire	Running	2023-03-22 09:14:44	2023-10-01 09:14:53	11	11	7	4	3	8	4	2	3	3	1
Round 11 Netherlands Round 11 self completion questionnaire	Running	2023-01-01 11:03:11	2023-12-31 11:03:16	1500	1500	17	10	7	1490	7	3	10	10	4
Round 11 German Round 11 self completion questionnaire	Running	2023-01-01 11:03:11	2023-12-31 00:00:00	1500	1500	4	2	2	1500	4	2	0		
Round 11 Italian Round 11 self completion questionnaire	Running	2023-01-01 11:03:11	2023-12-31 11:03:16	1500	1500	1	1	0	1500	1	0	0		
Round 11 Belgium Round 11 self completion questionnaire	Running	2023-01-01 11:03:11	2023-12-31 11:03:16	5	5	2	1	1	5	2	1	0		



Data collection - 2

- Monitoring progress per sample with access control list
- **Separate Data entry questionnaire** for data entry role
- Interview data daily available



The screenshot displays the SurveyCTRL web interface. The browser address bar shows the URL: `ess.centerdata.nl/surveyctrl/questionnaires/view/15`. The page title is "Questionnaire Round 11 self completion questionnaire". Below the title, there is a search bar and a table with 11 rows of respondent data. Each row includes columns for Respondent, Startcode, Test, Mode, State, Started, and Finished, along with a "Start paper questionnaire" button.

Respondent	Startcode	Test	Mode	State	Started	Finished	
10001	SE2433GK	0	WEB				Start paper questionnaire
10002	SE7955FB	0	PAPER	Finished	12:26 24-05-2023	12:44 24-05-2023	Start paper questionnaire
10003	SE9439JP	0	WEB				Start paper questionnaire
10004	SE8365YG	0	WEB				Start paper questionnaire
10005	SE2926YE	0	WEB				Start paper questionnaire
10006	SE6675EL	0	WEB	Finished	11:49 24-05-2023	12:23 24-05-2023	Start paper questionnaire
10007	SE8464BM	0	WEB	Busy	13:13 07-06-2023		Start paper questionnaire
10008	SE8362LJ	0	WEB	Finished	11:44 07-06-2023	13:31 07-06-2023	Start paper questionnaire
10009	SE5729WS	0	PAPER	Busy	09:04 06-06-2023		Start paper questionnaire
10010	SE8258HT	0	WEB	Finished	11:23 23-05-2023	09:20 26-05-2023	Start paper questionnaire

Data collection - 3

- Monitoring progress per sample with access control list
- **Separate Data entry questionnaire** for data entry role
- Interview data daily available



Questionnaire

ess.centerdata.nl/qst11/index.php

Now some questions on different topics.

Do you think that climate change is caused by natural processes, human activity, or both?

- Entirely by natural processes
- Mainly by natural processes
- About equally by natural processes and human activity
- Mainly by human activity
- Entirely by human activity
- I don't think climate change is happening

To what extent do you feel a personal responsibility to try to reduce climate change?
Please tick any circle O from 0 to 10, where 0 means not at all and 10 means a great deal.

- 0 - Not at all
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10 - A great deal

How worried are you about climate change?

- Not at all worried
- Not very worried
- Somewhat worried
- Very worried
- Extremely worried

On a typical day, about how much time do you spend watching, reading or listening to news about politics and current affairs?
Please give your answer in hours and minutes.
For example, if you did this for one hour and twenty minutes you would enter:

HOURS **MINUTES**

Data collection - 4

- Monitoring progress per sample with access control list
- Separate Data entry questionnaire for data entry role
- **Interview data daily available**

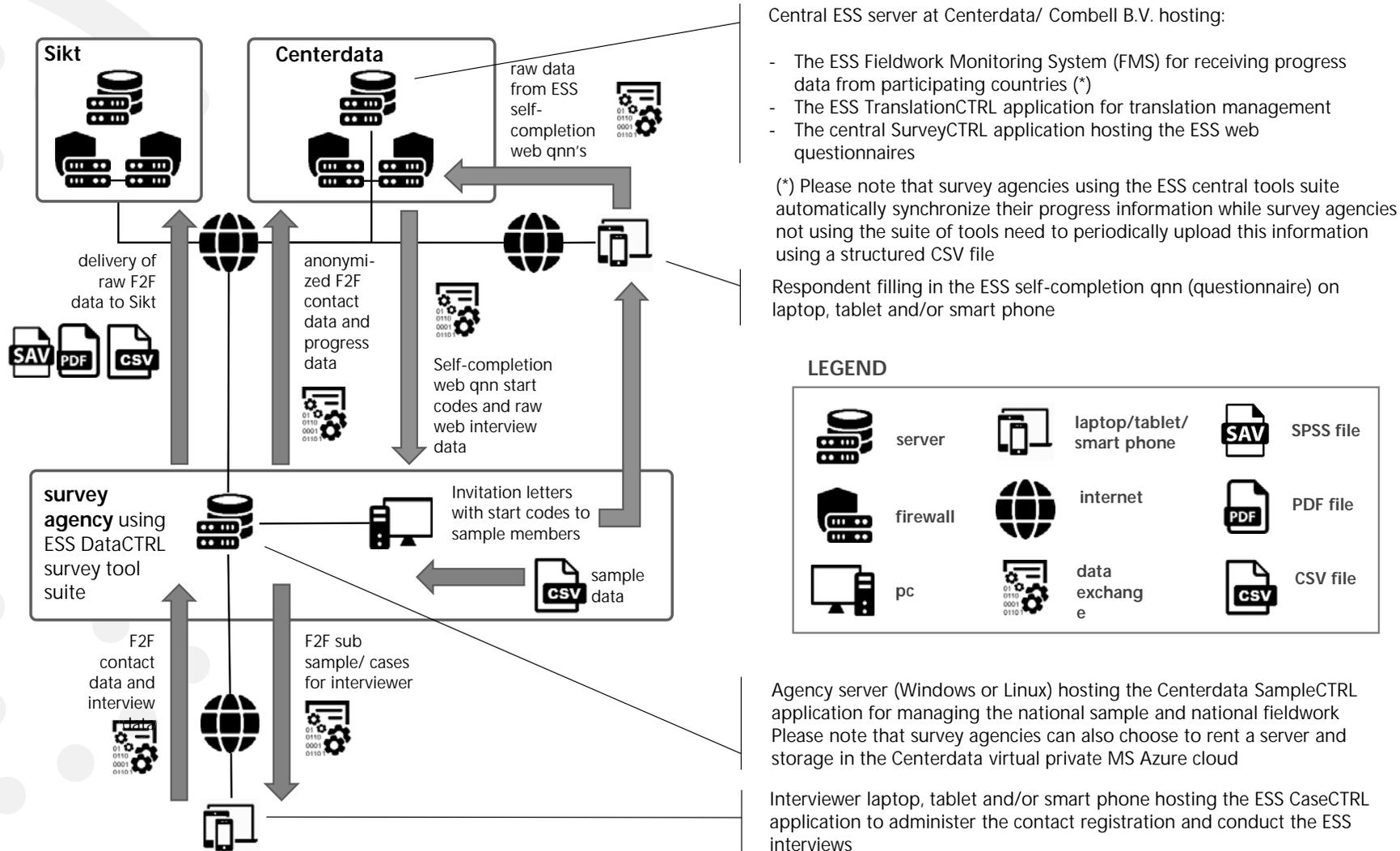
The screenshot displays the SurveyCTRL web interface for a questionnaire titled "Questionnaire Round 11 self completion questionnaire". The interface is divided into several sections:

- Header:** "SurveyCTRL by Centerdata" with navigation links for "SurveyCTRL", "Templates", "Users", and a user profile "Welcome, Iggy van der Wielen".
- Questionnaire Details:** A table listing various attributes:

Hosting	Round 11 Source test
Hash	sourcetest
Username prefix	ST
Access mode	3: Sample with startcode
Questionnaire URL	https://www.ess.centerdata.nl/qst11/?quest=ess_r11_sc_source_test&mob=1
Paper questionnaire URL	https://www.ess.centerdata.nl/qst11/?quest=ess_r11_sc_dataentry_test
Language	English
Start link	https://ess.centerdata.nl/questionnaires/sourcetest
Start link (test)	https://ess.centerdata.nl/questionnaires/sourcetest/test
Finish link	https://ess.centerdata.nl/questionnaires/sourcetest/finish?quest=^_quest;&resp=^respondent;&check=^_check;
Unsubscribe link	https://ess.centerdata.nl/questionnaires/\$startcode\$/unsub
Finish link (alternative)	https://ess.centerdata.nl/questionnaires/finish?quest=^_quest;&resp=^respondent;&check=^_check;
Open date/time	09:14 22-03-2023
- Questionnaire Statistics:** A summary of response data:

Gross sample	11
Active sample	11
Inactive	0
Blocked	0
Started	7
Finished	4
% busy	27.3%
% finished	36.4%
- Interview data downloads:** Two sections for downloading data:
 - WEB:** Download buttons for "answers.csv" and "timestamps.csv".
 - PAPER:** Download buttons for "answers.csv" and "timestamps.csv".

ESS DataCTRL tool suite data flow



Future developments

- Survey codings
- Read out loud and Karaoke
- Translation memory
- ChatGPT (!?)



Survey codings

- Levels of education
- Fields of education
- Occupation
- Industry
- Religion



ClassificationCTRL

surveycodings.org/articles/documentation/cawi

Mode 1: List of countries

Tell the API to return a JSON format of all **countries** in the **education** database that have codings. The arguments **type** and **mode** are used to retrieve the requested data. See the above section on what they do.

Example: <https://api.surveycodings.org/codings/search.json?type=education&mode=country>

Argument	Options	Description	Example
mode	country	The above URL tells the API to return a JSON format of all countries .	mode=country

Mode 2: Search (used in autocomplete)

Tell the API to return a JSON list of all codings for a specific context where the description matches a given search string.

Example education database:
<https://api.surveycodings.org/codings/search.json?type=education&mode=search&context=52800&search=pr>

Example occupation/industry database:
https://api.surveycodings.org/codings/search.json?type=occupation&mode=search&context=en_GB&search=pr
https://api.surveycodings.org/codings/search.json?type=industry&mode=search&context=en_GB&search=pr

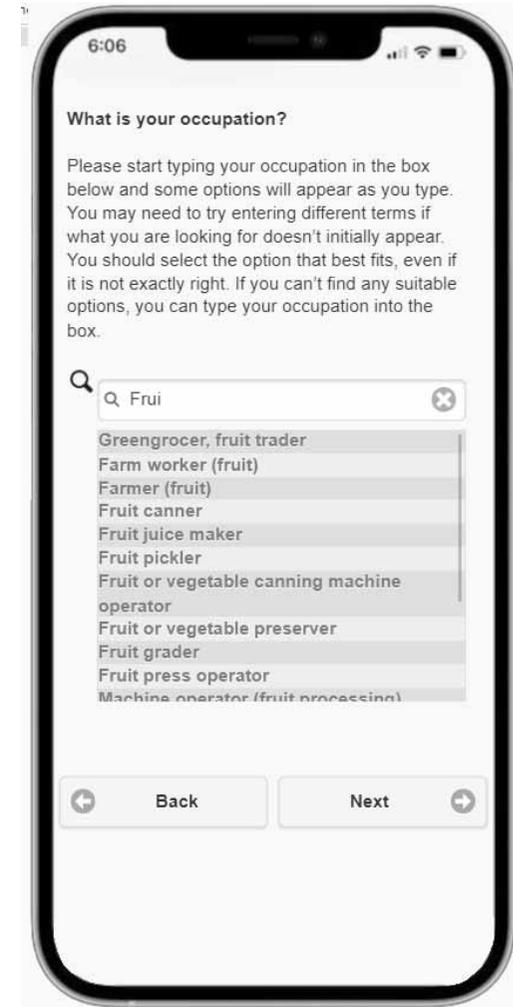
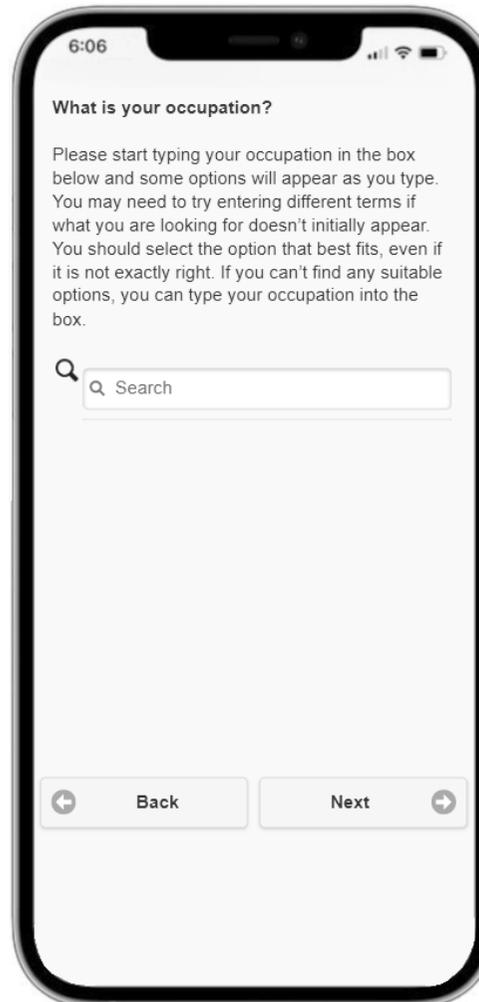
Argument	Options	Description	Example
mode	search	Tells the API to search for codings based on a text search.	mode=search
context	[integer] or [string]	This tells the database in which context to look for codings. The context for education is an integer. The context for industry and occupation are strings.	Example education: context=52800 Dutch codings. Example occupation: context=nl_NL Dutch codings. Example industry: context=nl_NL Dutch codings.

Survey codings - 2

- Levels of education
- Fields of education
- Occupation
- Industry
- Religion



ClassificationCTRL



Survey codings - 3

- Levels of education
- Fields of education
- Occupation
- Industry
- Religion



ClassificationCTRL

What is your occupation?

Please start typing your occupation in the box below and some options will appear as you type. You may need to try entering different terms if what you are looking for doesn't initially appear. You should select the option that best fits, even if it is not exactly right. If you can't find any suitable options, you can type your occupation into the box.

What is your occupation?

Please start typing your occupation in the box below and some options will appear as you type. You may need to try entering different terms if what you are looking for doesn't initially appear. You should select the option that best fits, even if it is not exactly right. If you can't find any suitable options, you can type your occupation into the box.

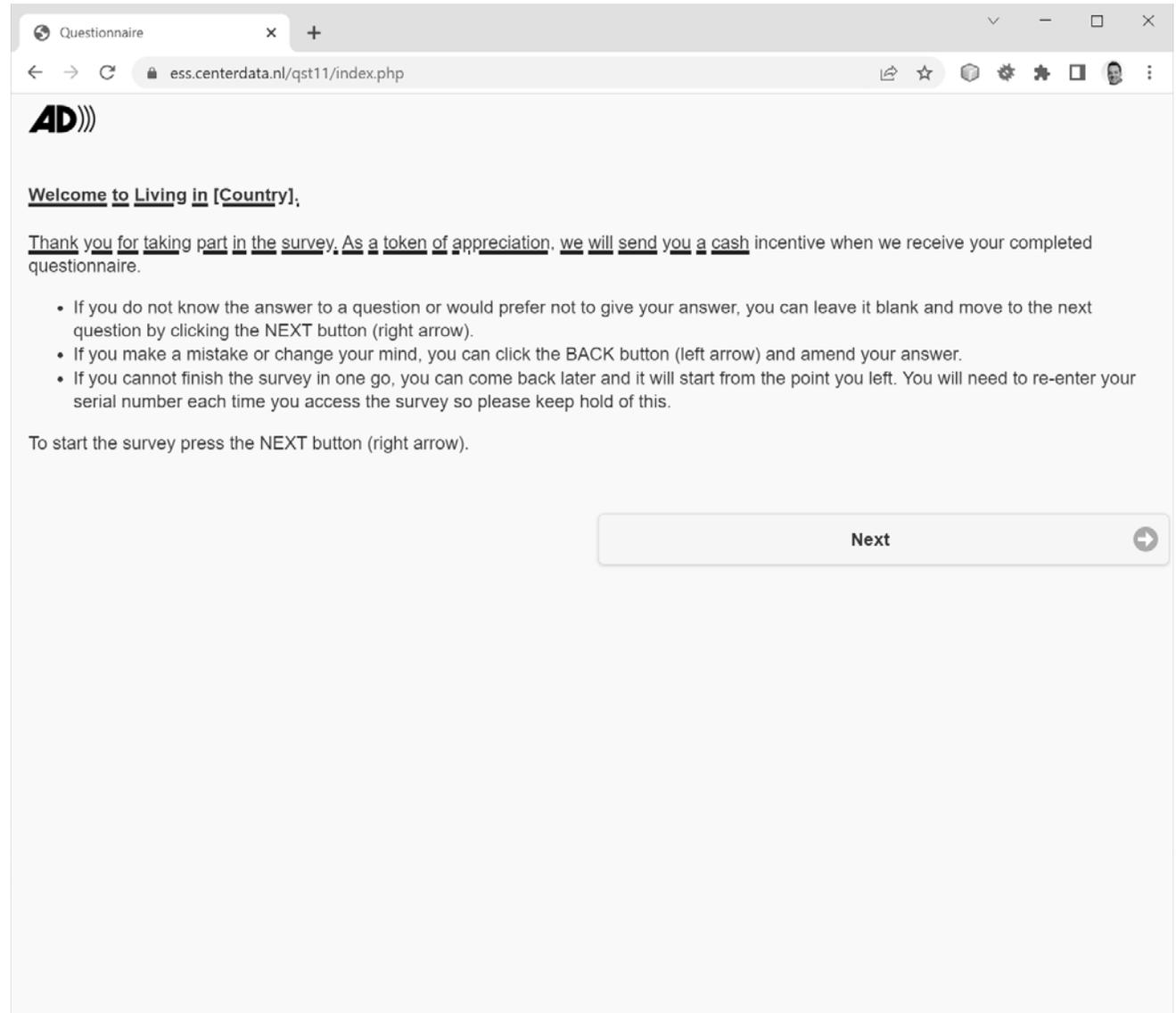
- Greengrocer, fruit trader
- Farm worker (fruit)
- Farmer (fruit)
- Fruit canner
- Fruit juice maker
- Fruit pickler
- Fruit or vegetable canning machine operator
- Fruit or vegetable preserver
- Fruit grader
- Fruit press operator
- Machine operator (fruit processing)
- Fruit juice production machine operator

Read out loud and Karaoke

- Include people who have difficulty reading and/or not see well
- Both online and offline (e.g., electronic questionnaire devices)



QuestionnaireCTRL



The team

- Long-term knowledge safeguarding, with a team that knows your survey
- Experienced team of expert survey developers
- Embedded in organization that has ample experience with developing questionnaires, therefore scalable
- In-house programming capacity with permanent staff

ESS team at Centerdata



Eric Balster
Head IT department



Iggy van der Wielen
Development manager



Sebastiaan Pennings
Scientific programmer



Maurice Martens
Sr. Scientific programmer



Marlen Paulitti
Assistant researcher



Nick Wondergem
Scientific programmer



Marika de Bruijne
Sr. Survey researcher



Priscilla Zhang
Assistant survey researcher



Eric Balster MSc
Head of IT & Development



Ruud Feringa
Software programmer



Paul Hendriks BSc
Scientific programmer



Sander Janssens
System administrator



Maurice Martens MSc
Senior scientific programmer



Erik Nagelkerke BSc
Scientific programmer



Marlen Paulitti MSc
Assistant researcher



Sebastiaan Pennings MSc
Scientific programmer



Linda Uijtdeuwilgen
ISO coordinator



dr. Edwin de Vet
Scientific programmer / security officer



Luuk van der Vleuten BSc
System administrator



Iggy van der Wielen BSc
Development manager



Arnaud Wijnant MSc
Deputy head of IT & Development



Nick Wondergem BSc
Scientific programmer

Expertise at Centerdata



dr. Marika de Bruijne
Senior survey researcher



dr. Evi de Cock
Senior survey researcher



Boukje Cuenaere MSc
Head of Survey Research



Gamze Demirel BSc
Assistant survey researcher



dr. Maartje Elshout
Senior survey researcher



Suzan Elshout MSc
Hosting coordinator / Senior survey researcher



Stein Jongerius MSc
Survey researcher



dr. Natalia Kieruj
Senior survey researcher



Joost Leenen MSc
Survey researcher



dr. Miquelle Marchand
Deputy head of Survey Research / Senior survey researcher



Joris Mulder MSc
LIS coordinator / Senior survey researcher



Marije Oudejans MSc
Senior survey researcher



Priscilla Zhang MSc
Assistant survey researcher



Maarten Streefkerk MSc
Survey researcher



prof. dr. Peter van der Velden
Senior researcher Mental Health, Stress & Trauma



Mara Verheijen MSc
Survey researcher





Questions?

Marcel Das – marcel.das@centerdata.nl



CENTERDATA

research institute