



# Technical report

## Citizen Panel 50 – 2023

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## Glossary

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<i>Break-offs</i>	Type of nonresponse. Defined as responses with more than 50 percent item nonresponse.
<i>Completion rate (COMR)</i>	The quotient of complete responses (answered more than 80% of the applicable questions) and all invited to the survey in a probability-based panel sample (COMR=complete responses/all invited to the survey).
<i>Date of reminders</i>	Reminders are sent by email to those in the sample who have not yet completed the survey.
<i>E-mail bounces</i>	Due to automatic spam filters and similar services, or incorrect e-mail addresses, certain e-mails may result in a bounce, i.e. a non-contact. Includes both “hard” and “soft” bounces.
<i>Field period</i>	The field period is the time from the first to the last field day.
<i>Item response rate</i>	Calculated by dividing the number of item responses with the number of received/applicable items.
<i>Net completion rate (NCOMR)</i>	The quotient of complete responses (answered more than 80% of the applicable questions) and all invited to the survey excluding email bounces in a probability-based panel sample (NCOMR=complete responses/all invited to the survey excluding email bounces).
<i>Net participation rate (NPR)</i>	The quotient of complete responses (answered more than 80% of the applicable questions) and all invited to the survey excluding email bounces in a non-probability based panel sample or mix probability and non-probability panel sample (NPR=complete responses/all invited to the survey excluding email bounces).
<i>Number of received/applicable items</i>	The number of questions the participant received in the survey or would have received if the participant finished the survey.
<i>Outliers (sleepers)</i>	A respondent is defined as a sleeper if the mean time-use per question/item is more than the third quartile plus 1.5 times the interquartile range ( $Q_3 + 1.5 \times IQR$ ).
<i>Outliers (speeders)</i>	A respondent is defined as a speeder if the mean time-use per question/item is less than the first quartile minus half the interquartile range ( $Q_1 - 0.5 \times IQR$ ).
<i>Partial response</i>	Defined as responses with more than 20 and less than 50 percent item nonresponse.
<i>Participation rate (PR)</i>	The quotient of complete responses (answered more than 80% of the applicable questions) and all invited to the survey in a non-probability based panel sample or mix probability and non-probability panel sample (PR=complete responses/all invited to the survey).
<i>Responses</i>	The number of surveys completed that are registered on the last field day.
<i>Study</i>	A study is a featured specific study, e.g. an experiment, or a set of panel questions with a specific purpose, or some other kind of specific and delimited study.

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# Introduction

## The Swedish Citizen Panel (SCP)

The Swedish Citizen Panel (SCP) (Swedish: Medborgarpanelen – MP) is a non-commercial online access panel run by the SOM Institute at the University of Gothenburg. Today, the SOM Institute is a research infrastructure for collecting data from online questionnaires, mainly for survey experiments and panel studies. An essential part of the SOM Institute is also to contribute to methodological development and testing in the area of web surveys.

The Swedish Citizen Panel consists of approximately 75 000 pre-recruited panelists who have agreed to participate in research surveys in earlier recruitment efforts. Around 20 percent of the panel is recruited using a probability-based recruitment method, while remaining 80 percent of the panel is self-recruited. The Swedish Citizen Panel does not offer the participants any economic compensation for their participation.

The data collections tend to follow omnibus survey style where respondents answer questions on several topics and may participate in several different survey experiments. The topics and survey experiments are administered in collaboration with researchers and these collaborations are referred to as “studies” in this report. In addition to the studies, the respondents answer general questions not specific to any of the specific studies.

## Citizen Panel 50 (MP50)

The Citizen Panel 50 was administered between Wednesday May 31, 2023, and Tuesday June 27, 2023.

- A total of 13 435 panelists were invited to complete the questionnaire, out of which 13 158 were reached by the invitation. Furthermore, 8 480 of the panelists clicked on the link to the questionnaire, and 7 910 answered more than 80% of the applicable questions (Participation Rate: 59% and Net Participation Rate (excluding those who could not be reached): 60%).
- Respondents in the panel were recruited by both probability and non-probability based methods. What type of sample used in each respective study is defined in this report.
- All in all, there were 5 studies included in the Citizen Panel 50.

## Completion and participation estimations

The technical report reports four types of participation rates, following AAPOR (2016, p. 49) standard definitions for Probability-based Internet Panels and Non-probability based Internet Panels.

If the sample of respondents was drawn solely from the probability-based internet panel of SCP, Completion Rate (COMR) (Eq.1.) and Net Completion Rate (NCOMR) (Eq.2.) is reported.

If the sample of respondents was drawn from both the probability-based internet panel and the non-probability based internet panel, or if the sample was drawn solely from the non-probability based internet panel, Participation Rate (PR) (Eq.3) and Net Participation Rate (NPR) (Eq.4) is reported.

SCP recommend that COMR and PR be reported in publications referring to a specific study.

**Completion rate** (probability-based internet panel)

$$\text{Eq.1. Completion rate (COMR)} = \frac{I}{(I+P)+(R+NC+O)}$$

$$\text{Eq.2. Net completion rate (NCOMR)} = \frac{I}{(I+P)+(R+O)}$$

**Participation rate** (non-probability based internet panel or mix probability and non-probability panel)

$$\text{Eq.3. Participation rate (PR)} = \frac{I}{(I+P)+(R+NC+O)}$$

$$\text{Eq.4. Net participation rate (NPR)} = \frac{I}{(I+P)+(R+O)}$$

*I* (Interview) refer to a completed study where the respondent answered 80% or more of the questions they would have gotten.

*P* (Partial) refer to a partial study where the respondent answered 50% or more but fewer than 80% of the questions they would have gotten.

*R* (Refusal) refer to a refused questionnaire where the respondent was contacted but did not click on the link to the questionnaire. *R* also refer to break-offs where the respondent started the study but answered fewer than 50% of the question they would have gotten.

*NC* (Non-contact) refer to a questionnaire invitation that during the entire field period never reached the respondent's email (i.e., the email invitation bounced in the first invitation and in all of the reminder emails).

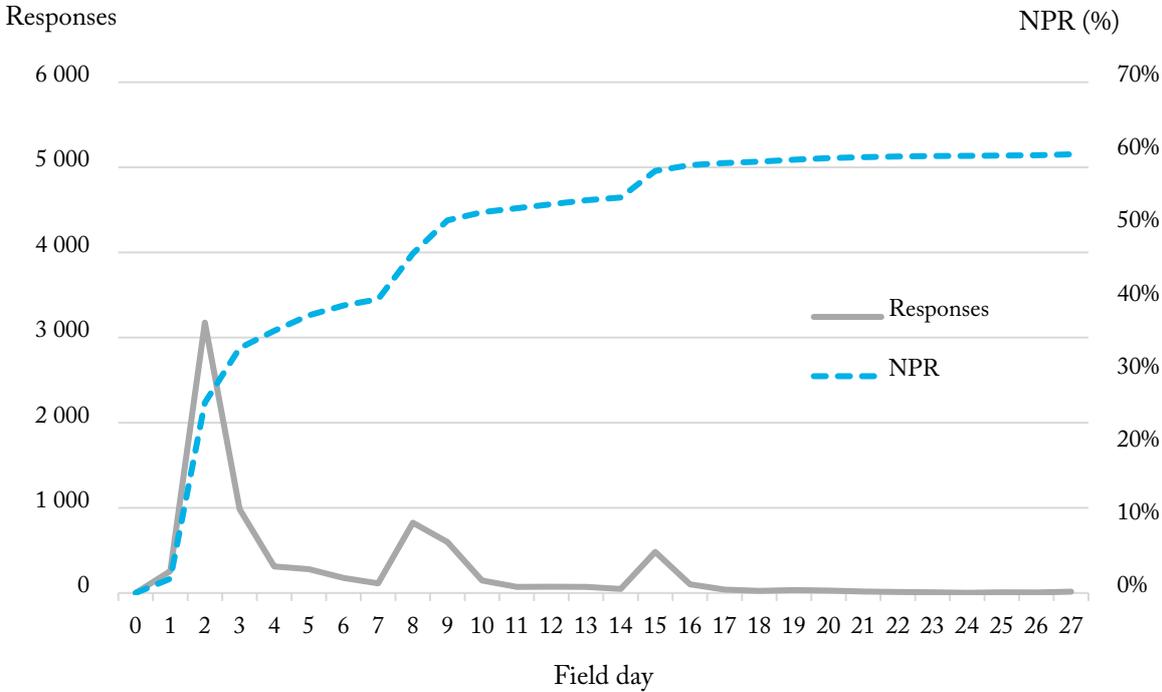
*O* (Other) refer to other categories of nonresponse. Examples of such categories are that the respondent terminated their participation in the SCP in the time between being selected to be invited and having their invitation emailed to them, did not accept the terms of participation in the panel, died, was physically or mentally unable to complete the questionnaire, or had notified that they had moved abroad (i.e. emigrated from Sweden).

# Fieldwork

**Table 1: Field information**

Name	Citizen Panel 50 (MP50)
No. of field days	28
Soft launch	Day 1: Wednesday May 31, 17:00, 2023
Main launch	Day 2: Thursday June 1, 13:37, 2023
Reminder 1	Day 8: Wednesday June 7, 20:00, 2023
Reminder 2	Day 15: Wednesday June 14, 08:00, 2023
Field end	Day 28: Tuesday June 27, 09:10, 2023

**Figure 1: Number of responses / cumulative net participation rate (%) by field day**



## Featured studies

Table 2: Featured studies in Citizen Panel 50

<i>Study:</i>	<i>Title:</i>	<i>Principal investigator(s):</i>
Study 1	The LORE panel – wave 33	Johan Martinsson
Study 2	Nordic defense cooperation	Rikard Bengtsson
Study 3	Acceptance of meat tax	Emma Ejelöv
Study 4	Architecture preferences	Anders Carlander & Felix Cassel
Study 5	Survey methodology: The dice survey 2.0	Anders Carlander & Felix Cassel

## Study 1: The LORE Panel – wave 33

Table 3: Study 1, The LORE Panel – wave 33

<b>Sample</b>	
Source	Non-probability
Pre-stratification variables or other selection criteria	Panelists
Age frame	24+
<b>Sample disposition</b>	
Total panelists invited ( $I+P+R+NC+O$ )	4 335
Completed study; more than 80% answered questions ( $I$ )	3 046
Partial study; 50%-80% answered questions ( $P$ )	5
Break-offs; fewer than 50% answered questions ( $R$ )	68
Refusals ( $R$ )	1 124
E-mail bounce backs or failed deliveries ( $NC$ )	92
Other ( $O$ )	0
<b>Participation rate</b>	
Participation rate (PR)	70%
Net participation rate (NPR)	72%
<b>Devices among completes</b>	
Computer device	40%
Mobile device	50%
Tablet device	10%

Table 4: Details on Study 1, The LORE Panel – wave 33

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	43.00	43.00	0.00	3 119
Number of item responses	41.93	43.00	6.19	3 119
Item response rate	0.98	1.00	0.14	3 119
Minutes to answer, excluding outliers	5.92	5.48	2.52	2 866
Seconds per item, excluding outliers	8.31	7.57	4.04	2 811
Minutes to answer, including outliers	7.43	5.65	20.57	3 117
Seconds per item, including outliers	10.40	7.82	28.36	3 062
Seconds per item, speeders	2.97	3.05	0.25	37
Seconds per item, sleepers	39.07	23.92	102.22	214

## Study 2: Nordic defense cooperation

Table 5: Study 2, Nordic defense cooperation

<b>Sample</b>	
Source	Probability
Pre-stratification variables or other selection criteria	Sex*Age*Education
Age frame	18-85
<b>Sample disposition</b>	
Total panelists invited ( $I+P+R+NC+O$ )	3 600
Completed study; more than 80% answered questions ( $I$ )	2 047
Partial study; 50%-80% answered questions ( $P$ )	22
Break-offs; fewer than 50% answered questions ( $R$ )	47
Refusals ( $R$ )	1 430
E-mail bounce backs or failed deliveries ( $NC$ )	54
Other ( $O$ )	0
<b>Completion rate</b>	
Completion rate (COMR)	57%
Net completion rate (NCOMR)	58%
<b>Devices among completes</b>	
Computer device	35%
Mobile device	56%
Tablet device	9%

Table 6: Details on Study 2, Nordic defense cooperation

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	25.98	26.00	0.13	2 116
Number of item responses	25.28	26.00	3.52	2 116
Item response rate	0.97	1.00	0.14	2 116
Minutes to answer, excluding outliers	3.33	3.00	1.48	1 962
Seconds per item, excluding outliers	7.53	6.72	3.35	1 962
Minutes to answer, including outliers	3.88	3.08	3.30	2 100
Seconds per item, including outliers	8.76	6.93	7.34	2 100
Seconds per item, speeders	2.21	2.30	0.29	12
Seconds per item, sleepers	28.50	21.86	17.56	126

## Study 3: Acceptance of meat tax

Table 7: Study 3, Acceptance of meat tax

<b>Sample</b>	
Source	Non-probability
Pre-stratification variables or other selection criteria	Sex*Age*Education
Age frame	18-85
<b>Sample disposition</b>	
Total panelists invited ( $I+P+R+NC+O$ )	5 500
Completed study; more than 80% answered questions ( $I$ )	2 913
Partial study; 50%-80% answered questions ( $P$ )	102
Break-offs; fewer than 50% answered questions ( $R$ )	218
Refusals ( $R$ )	2 136
E-mail bounce backs or failed deliveries ( $NC$ )	131
Other ( $O$ )	0
<b>Participation rate</b>	
Participation rate (PR)	53%
Net participation rate (NPR)	54%
<b>Devices among completes</b>	
Computer device	30%
Mobile device	60%
Tablet device	10%

Table 8: Details on Study 3, Acceptance of meat tax

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	51.00	51.00	0.13	3 233
Number of item responses	44.93	49.00	10.32	3 233
Item response rate	0.88	0.96	0.20	3 233
Minutes to answer, excluding outliers	13.70	12.23	7.53	3 030
Seconds per item, excluding outliers	17.04	14.59	11.38	3 030
Minutes to answer, including outliers	15.80	12.63	12.50	3 219
Seconds per item, including outliers	19.42	15.11	16.04	3 219
Seconds per item, speeders	2.97	2.86	0.78	10
Seconds per item, sleepers	60.63	50.75	25.10	179

## Study 4: Architecture preferences

Table 9: Study 4, Architecture preferences

<b>Sample</b>	
Source	Probability: 45% Non-probability: 55%
Pre-stratification variables or other selection criteria	Sex*Age*Education (probability sample)
Age frame	18+
<b>Sample disposition</b>	
Total panelists invited ( $I+P+R+NC+O$ )	7 935
Completed study; more than 80% answered questions ( $I$ )	4 994
Partial study; 50%-80% answered questions ( $P$ )	55
Break-offs; fewer than 50% answered questions ( $R$ )	72
Refusals ( $R$ )	2 668
E-mail bounce backs or failed deliveries ( $NC$ )	146
Other ( $O$ )	0
<b>Participation rate</b>	
Participation rate (PR)	63%
Net participation rate (NPR)	64%
<b>Devices among completes</b>	
Computer device	38%
Mobile device	53%
Tablet device	9%

Table 10: Details on Study 4, Architecture preferences

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	35.83	36.00	0.37	5 121
Number of item responses	35.06	36.00	3.81	5 121
Item response rate	0.98	1.00	0.11	5 121
Minutes to answer, excluding outliers	4.29	3.82	1.92	4 760
Seconds per item, excluding outliers	7.03	6.24	3.12	4 751
Minutes to answer, including outliers	5.23	3.95	21.57	5 107
Seconds per item, including outliers	8.56	6.47	35.03	5 098
Seconds per item, speeders	1.98	2.11	0.36	59
Seconds per item, sleepers	35.19	21.64	144.45	288

## Study 5: Survey methodology: The dice survey 2.0

Table 11: Study 5, Survey methodology: The dice survey 2.0

<b>Sample</b>	
Source	Non-probability
Pre-stratification variables or other selection criteria	Sex*Age*Education
Age frame	18-85
<b>Sample disposition</b>	
Total panelists invited ( $I+P+R+NC+O$ )	5 500
Completed study; more than 80% answered questions ( $I$ )	2 912
Partial study; 50%-80% answered questions ( $P$ )	9
Break-offs; fewer than 50% answered questions ( $R$ )	61
Refusals ( $R$ )	2 387
E-mail bounce backs or failed deliveries ( $NC$ )	131
Other ( $O$ )	0
<b>Participation rate</b>	
Participation rate (PR)	53%
Net participation rate (NPR)	54%
<b>Devices among completes</b>	
Computer device	30%
Mobile device	60%
Tablet device	10%

Table 12: Details on Study 5, Survey methodology: The dice survey 2.0

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	17.00	17.00	0.00	2 982
Number of item responses	16.62	17.00	2.37	2 982
Item response rate	0.98	1.00	0.14	2 982
Minutes to answer, excluding outliers	2.57	2.38	1.03	2 723
Seconds per item, excluding outliers	8.67	7.99	3.43	2 695
Minutes to answer, including outliers	3.02	2.43	2.98	2 963
Seconds per item, including outliers	10.17	8.14	9.96	2 935
Seconds per item, speeders	2.85	3.04	0.73	56
Seconds per item, sleepers	34.30	25.32	27.97	184

## Summary, Citizen Panel 50

Table 13: Overall information, Citizen Panel 50

<b>Sample</b>	
Source	Probability: 27% Non-probability: 73%
Pre-stratification variables or other selection criteria	-
Age frame	18+
<b>Sample disposition</b>	
Total panelists invited ( $I+P+R+NC+O$ )	13 435
Completed questionnaires; more than 80% answered questions ( $I$ )	7 910
Partial questionnaires; 50%-80% answered questions ( $P$ )	168
Break-offs; fewer than 50% answered questions ( $R$ )	402
Refusals ( $R$ )	4 678
E-mail bounce backs or failed deliveries ( $NC$ )	277
Other ( $O$ )	0
<b>Participation rate</b>	
Participation rate ( $PR$ )	59%
Net participation rate ( $NPR$ )	60%
<b>Devices among completes</b>	
Computer device	35%
Mobile device	55%
Tablet device	10%

The Swedish Citizen Panel (SCP) is an academic web survey center located at the SOM Institute at the University of Gothenburg. The objective of the Swedish Citizen Panel is to facilitate for scientists to conduct web survey experiments, collect panel data and to contribute to methodological development. For more information, please contact us at:

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