



# Technical report

## LORE Citizen

### Panel 48 – 2022

Please use the following citation when using data from Citizen Panel 48:

Martinsson, J., Andreasson, M., Cassel, F., Cassel, S., Garcia-Nilsson, A., Wessman, F. (2022). *Technical report Citizen Panel 48 – 2022*, Gothenburg: University of Gothenburg, LORE.

## Contents

Glossary .....	3
Introduction.....	4
The Swedish Citizen Panel (SCP) .....	4
Citizen Panel 48 (MP48) .....	4
Completion and participation estimations.....	5
Fieldwork.....	6
Featured studies .....	7
Study 1: The LORE panel – wave 31.....	8
Study 2: Societal readiness index for shared autonomy – wave 2.....	9
Study 3: Activation and articulation of authoritarian attitudes – experiment 3 wave 2.....	10
Study 4: Survey methodology: Acquiescence bias.....	11
Study 5: Survey methodology: Attention checks .....	12
Study 6: Political proposals in the SOM surveys.....	13
Study 7: (Mis)perceptions about immigration and crime – wave 1 .....	14
Summary, Citizen Panel 48 .....	15

This report was created by:  
Felix Cassel  
Deputy Chief Analyst  
Laboratory of Opinion Research  
University of Gothenburg

## Glossary

---

<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.

---

# Introduction

## The Swedish Citizen Panel (SCP)

The Swedish Citizen Panel (SCP) (Swedish: Medborgarpanelen – MP) is a non-commercial online access panel run by the Laboratory of Opinion Research (LORE), which is a part of the SOM Institute at the University of Gothenburg. Today, LORE is a research infrastructure for collecting data from online questionnaires, mainly for survey experiments and panel studies. An essential part of LORE 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 48 (MP48)

- The Citizen Panel 48 was administered between Monday December 5, 2022, and Wednesday January 11, 2023.
- A total of 17 054 panelists were invited to complete the questionnaire, out of which 16 441 were reached by the invitation. Furthermore, 11 947 of the panelists clicked on the link to the questionnaire, and 11 227 answered more than 80% of the applicable questions (Participation Rate: 66% and Net Participation Rate (excluding those who could not be reached): 67%).
- 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 7 studies included in the Citizen Panel 48.

## 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).

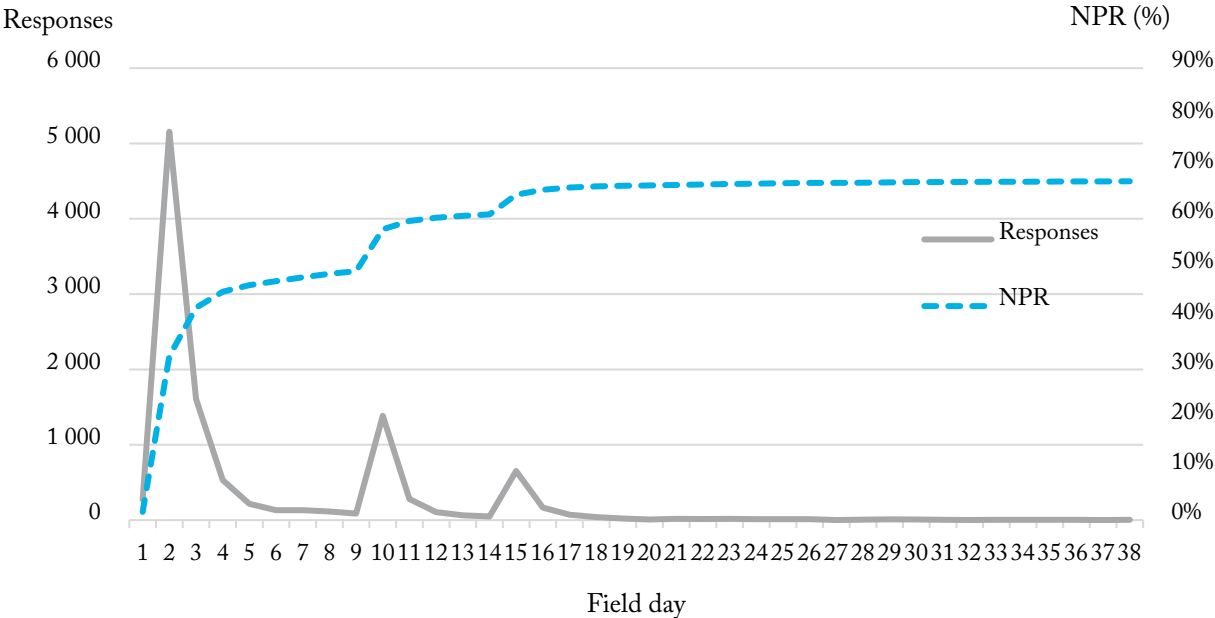
*O* (Other) refer to other categories of nonresponse. Examples of such categories are that the respondent terminated their participation in the SCP in the time between being selected to be invited and having their invitation emailed to them, did not accept the terms of participation in the panel, died, 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 48 (MP48)
No. of field days	38
Soft launch	Day 1: Monday December 5, 18:46, 2022
Main launch	Day 2: Tuesday December 6, 14:31, 2022
Reminder 1	Day 10: Wednesday December 14, 08:00, 2022
Reminder 2	Day 15: Monday December 19, 12:00, 2022
Field end	Day 38: Wednesday January 11, 17:05, 2023

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



## Featured studies

Table 2: Featured studies in Citizen Panel 48

<i>Study:</i>	<i>Title:</i>	<i>Principal investigator(s):</i>
Study 1	The LORE panel - wave 31	Johan Martinsson
Study 2	Societal readiness index for shared autonomy – wave 2	Sigma Dolins
Study 3	Activation and articulation of authoritarian attitudes – experiment 3 wave 2	Mats Ekström
Study 4	Survey methodology: Acquiescence bias	LORE
Study 5	Survey methodology: Attention checks	LORE
Study 6	Political proposals in the SOM surveys	SOM Institute
Study 7	(Mis)perceptions about immigration and crime – wave 1	Elina Lindgren

## Study 1: The LORE panel – wave 31

Table 3: Study 1, The LORE panel – wave 31

<b>Sample</b>	
Source	Non-probability
Pre-stratification variables or other selection criteria	Panelists
Age frame	23+
<b>Sample disposition</b>	
Total panelists invited ( $I+P+R+NC+O$ )	4 189
Completed study; more than 80% answered questions ( $I$ )	2 840
Partial study; 50%-80% answered questions ( $P$ )	13
Break-offs; fewer than 50% answered questions ( $R$ )	9
Refusals ( $R$ )	1 169
E-mail bounce backs or failed deliveries ( $NC$ )	158
Other ( $O$ )	0
<b>Participation rate</b>	
Participation rate (PR)	68%
Net participation rate (NPR)	70%
<b>Devices among completes</b>	
Computer device	42%
Mobile device	49%
Tablet device	9%

Table 4: Details on Study 1, The LORE panel – wave 31

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	14.69	24.00	11.70	4 713
Number of item responses	14.48	24.00	11.69	4 713
Item response rate	0.99	1.00	0.06	2 862
Minutes to answer, excluding outliers	2.90	2.67	1.12	4 342
Seconds per item, excluding outliers	6.82	6.18	2.65	2 634
Minutes to answer, including outliers	4.30	2.77	46.24	4 707
Seconds per item, including outliers	11.42	6.40	142.33	2 858
Seconds per item, speeders	2.60	2.63	0.26	29
Seconds per item, sleepers	74.91	22.03	542.11	195



## Study 2: Societal readiness index for shared autonomy – wave 2

Table 5: Study 2: Societal readiness index for shared autonomy – wave 2

<b>Sample</b>		
Source		Non-probability
Pre-stratification variables or other selection criteria		Sex * Age * Education, residents in Stockholm and Gothenburg
Age frame		26+
<b>Sample disposition</b>		
Total panelists invited ( <i>I+P+R+NC+O</i> )		2 073
Completed study; more than 80% answered questions ( <i>I</i> )		1 779
Partial study; 50%-80% answered questions ( <i>P</i> )		79
Break-offs; fewer than 50% answered questions ( <i>R</i> )		42
Refusals ( <i>R</i> )		171
E-mail bounce backs or failed deliveries ( <i>NC</i> )		2
Other ( <i>O</i> )		0
<b>Participation rate</b>		
Participation rate (PR)		86%
Net participation rate (NPR)		86%
<b>Devices among completes</b>		
Computer device		39%
Mobile device		53%
Tablet device		8%

Table 6: Details on Study 2: Societal readiness index for shared autonomy – wave 2

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	110.03	112.00	5.74	1 900
Number of item responses	103.76	108.00	13.77	1 900
Item response rate	0.94	0.97	0.12	1 900
Minutes to answer, excluding outliers	12.20	11.34	4.74	1 769
Seconds per item, excluding outliers	6.72	6.18	2.66	1 768
Minutes to answer, including outliers	13.55	11.54	9.05	1 898
Seconds per item, including outliers	7.44	6.32	4.89	1 897
Seconds per item, speeders	2.40	2.58	0.51	30
Seconds per item, sleepers	21.87	18.06	10.37	99

## Study 3: Activation and articulation of authoritarian attitudes - experiment 3 wave 2

Table 7: Study 3, Activation and articulation of authoritarian attitudes - experiment 3 wave 2

<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>I+P+R+NC+O</i> )	2 892
Completed study; more than 80% answered questions ( <i>I</i> )	2 222
Partial study; 50%-80% answered questions ( <i>P</i> )	12
Break-offs; fewer than 50% answered questions ( <i>R</i> )	325
Refusals ( <i>R</i> )	331
E-mail bounce backs or failed deliveries ( <i>NC</i> )	2
Other ( <i>O</i> )	0
<b>Participation rate</b>	
Participation rate (PR)	77%
Net participation rate (NPR)	77%
<b>Devices among completes</b>	
Computer device	32%
Mobile device	60%
Tablet device	8%

Table 8: Details on Study 3, Activation and articulation of authoritarian attitudes - experiment 3 wave 2

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	30.89	33.00	2.87	2 559
Number of item responses	26.56	32.00	10.23	2 559
Item response rate	0.87	1.00	0.32	2 559
Minutes to answer, excluding outliers	8.67	8.36	5.08	2 375
Seconds per item, excluding outliers	20.25	17.26	20.44	2 294
Minutes to answer, including outliers	11.12	8.51	51.66	2 559
Seconds per item, including outliers	25.15	17.58	98.96	2 478
Seconds per item, speeders	5.50	5.74	1.05	59
Seconds per item, sleepers	124.46	52.83	421.10	125

## Study 4: Survey methodology: Acquiescence bias

Table 9: Study 4, Survey methodology: Acquiescence bias

<b>Sample</b>		Non-probability
Source		-
Pre-stratification variables or other selection criteria		-
Age frame		18+
<b>Sample disposition</b>		
Total panelists invited ( $I+P+R+NC+O$ )		7 589
Completed study; more than 80% answered questions ( $I$ )		4 444
Partial study; 50%-80% answered questions ( $P$ )		19
Break-offs; fewer than 50% answered questions ( $R$ )		15
Refusals ( $R$ )		2 816
E-mail bounce backs or failed deliveries ( $NC$ )		295
Other ( $O$ )		0
<b>Participation rate</b>		
Participation rate (PR)		59%
Net participation rate (NPR)		61%
<b>Devices among completers</b>		
Computer device		38%
Mobile device		53%
Tablet device		9%

Table 10: Details on Study 4, Survey methodology: Acquiescence bias

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	11.31	12.00	0.95	4 478
Number of item responses	11.20	12.00	1.16	4 478
Item response rate	0.99	1.00	0.06	4 478
Minutes to answer, excluding outliers	1.00	0.97	0.90	4 358
Seconds per item, excluding outliers	1.81	1.76	1.65	4 358
Minutes to answer, including outliers	1.13	1.00	1.34	4 475
Seconds per item, including outliers	2.06	1.82	2.45	4 475
Seconds per item, speeders	0.00	0.00	0.00	0
Seconds per item, sleepers	11.48	9.39	6.09	117

## Study 5: Survey methodology: Attention checks

Table 11: Study 5, Survey methodology: Attention checks

<b>Sample</b>	
Source	Non-probability
Pre-stratification variables or other selection criteria	Sex * Age * Education
Age frame	18+
<b>Sample disposition</b>	
Total panelists invited ( <i>I+P+R+NC+O</i> )	7 589
Completed study; more than 80% answered questions ( <i>I</i> )	4 243
Partial study; 50%-80% answered questions ( <i>P</i> )	246
Break-offs; fewer than 50% answered questions ( <i>R</i> )	156
Refusals ( <i>R</i> )	2 649
E-mail bounce backs or failed deliveries ( <i>NC</i> )	295
Other ( <i>O</i> )	0
<b>Participation rate</b>	
Participation rate (PR)	56%
Net participation rate (NPR)	58%
<b>Devices among completers</b>	
Computer device	38%
Mobile device	53%
Tablet device	9%

Table 12: Details on Study 5, Survey methodology: Attention checks

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	33.49	30.00	8.82	4 645
Number of item responses	31.87	29.00	10.34	4 645
Item response rate	0.95	1.00	0.16	4 645
Minutes to answer, excluding outliers	6.17	5.72	2.55	4 292
Seconds per item, excluding outliers	11.61	10.50	5.39	4 292
Minutes to answer, including outliers	6.94	5.83	7.14	4 619
Seconds per item, including outliers	12.91	10.69	14.01	4 619
Seconds per item, speeders	3.88	4.00	0.46	93
Seconds per item, sleepers	40.33	30.79	50.38	234

## Study 6: Political proposals in the SOM surveys

Table 13: Study 6, Political proposals in the SOM surveys

<b>Sample</b>	
Source	Non-probability
Pre-stratification variables or other selection criteria	Sex * Age * Education
Age frame	18+
<b>Sample disposition</b>	
Total panelists invited ( <i>I+P+R+NC+O</i> )	7 589
Completed study; more than 80% answered questions ( <i>I</i> )	4 241
Partial study; 50%-80% answered questions ( <i>P</i> )	214
Break-offs; fewer than 50% answered questions ( <i>R</i> )	9
Refusals ( <i>R</i> )	2 830
E-mail bounce backs or failed deliveries ( <i>NC</i> )	295
Other ( <i>O</i> )	0
<b>Participation rate</b>	
Participation rate (PR)	56%
Net participation rate (NPR)	58%
<b>Devices among completers</b>	
Computer device	38%
Mobile device	53%
Tablet device	9%

Table 14: Details on Study 6, Political proposals in the SOM surveys

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	2.00	2.00	0.04	4 464
Number of item responses	1.95	2.00	0.23	4 464
Item response rate	0.97	1.00	0.12	4 464
Minutes to answer, excluding outliers	1.39	1.14	0.90	4 113
Seconds per item, excluding outliers	3.62	2.96	2.34	4 113
Minutes to answer, including outliers	1.92	1.22	2.62	4 463
Seconds per item, including outliers	4.99	3.19	6.86	4 463
Seconds per item, speeders	0.08	0.09	0.04	4
Seconds per item, sleepers	21.31	15.67	15.93	346

## Study 7: (Mis)perceptions about immigration and crime - wave 1

Table 15: Study 7, (Mis)perceptions about immigration and crime - wave 1

<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>I+P+R+NC+O</i> )	4 500
Completed study; more than 80% answered questions ( <i>I</i> )	2 723
Partial study; 50%-80% answered questions ( <i>P</i> )	16
Break-offs; fewer than 50% answered questions ( <i>R</i> )	29
Refusals ( <i>R</i> )	1 618
E-mail bounce backs or failed deliveries ( <i>NC</i> )	114
Other ( <i>O</i> )	0
<b>Participation rate</b>	
Participation rate (PR)	61%
Net participation rate (NPR)	62%
<b>Devices among completes</b>	
Computer device	31%
Mobile device	61%
Tablet device	8%

Table 16: Details on Study 7, (Mis)perceptions about immigration and crime - wave 1

	Mean	Median	Std. Dev.	N.
Number of received/applicable items	38.00	38.00	0.00	2 768
Number of item responses	37.14	38.00	3.85	2 768
Item response rate	0.98	1.00	0.10	2 768
Minutes to answer, excluding outliers	6.47	6.05	2.15	2 513
Seconds per item, excluding outliers	10.04	9.33	3.50	2 513
Minutes to answer, including outliers	7.13	6.15	5.15	2 755
Seconds per item, including outliers	11.05	9.49	7.98	2 755
Seconds per item, speeders	4.28	4.44	0.65	80
Seconds per item, sleepers	30.14	23.82	22.15	162

## Summary, Citizen Panel 48

Table 17: Overall information, Citizen Panel 48

<b>Sample</b>	
Source	Non-probability
Pre-stratification variables or other selection criteria	-
Age frame	18+
<b>Sample disposition</b>	
Total panelists invited ( $I+P+R+NC+O$ )	17 054
Completed questionnaires; more than 80% answered questions ( $I$ )	11 227
Partial questionnaires; 50%-80% answered questions ( $P$ )	229
Break-offs; fewer than 50% answered questions ( $R$ )	491
Refusals ( $R$ )	4 694
E-mail bounce backs or failed deliveries ( $NC$ )	413
Other ( $O$ )	0
<b>Participation rate</b>	
Participation rate ( $PR$ )	66%
Net participation rate ( $NPR$ )	67%
<b>Devices among completes</b>	
Computer device	35%
Mobile device	57%
Tablet device	8%

The Laboratory of Opinion Research (LORE) is an academic web survey center located at the SOM Institute at the University of Gothenburg. The objective of the Laboratory of Opinion Research 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:

[info@lore.gu.se](mailto:info@lore.gu.se)