

## Serbia 2023 Technical Document

**Sampling:** A stratified multi-stage cluster sample design was used to complete 1,000 face-to-face surveys.

**Target Population/Coverage:** Non-institutionalized adult population (15 years of age or older) living in households. Stratification and selection used information from the 2011 population census and the 2017 list of voting stations provided by the Republic Electoral Commission.

**Stratification:** The sampling frame was stratified by geographic region and urban rural status, resulting in a total of 8 strata groups. These include the 4 NUTS2 regions: Belgrade (capital), Central and West Serbia, East and South Serbia, and Vojvodina. The regions were further stratified by urban and rural status classified by local statistical office of the Republic of Serbia.

**Sample Selection:** Primary Sampling Units (PSUs) in Serbia are electoral districts. PSUs were selected using probabilities proportional to population size (PPS), where the 18+ population was the measure of size. A total of 100 PSUs were selected.

Within each selected PSU a random starting point was identified. Using the right-hand rule and a fixed interval of 3 households (i.e. every third household is selected), interviewers selected eligible households until the required number of interviews were completed. In large apartment buildings (with 10 or more residential units), an interval of 5 was used. Within each selected household, interviewers listed all eligible (15+ adults) individuals and the CAPI program randomly selected a respondent. In case of refusals or non-contacts, households were replaced along the random route using the same interval.

**Data Collection:** May 24, 2023 – September 4, 2023

**AAPOR3 response rate:** 49%

**Weighting:** The sample data was weighted to minimize bias in survey-based estimates. The weighting procedure was formulated based on the sample design and was carried out in multiple stages. A probability weight factor (base weight) was constructed to correct for unequal selection probabilities. At the next step, the base weights were post-stratified to adjust for non-response and to match the weighted sample totals to known target population totals obtained from country level census data.

**Design Effect:** 1.34

**Margin of error:**  $\pm 3.6\%$  (95% confidence level)

**Population sources used for constructing weights were based on the following:**

Age, Gender, Education, Region/Strata: Census 2022

<b>Age</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
15-29	12.8	17.9	18.4
30-49	30.5	31.8	31.6
50-64	25.3	24.2	24.1
65+	31.4	26.1	25.8
<b>Education</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
No education/Elementary	17.4	23.6	24.2
Secondary	67.7	54.0	53.3
Tertiary	14.9	22.4	22.5
<b>Sex</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
Male	45.5	47.9	48.1
Female	54.5	52.1	51.9
<b>Region</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
1: Belgrade Urban	19.0	20.4	20.6
2: Belgrade Rural	4.0	4.4	4.5
3: Central and West Serbia Urban	13.0	13.7	13.6
4: Central and West Serbia Rural	15.0	14.0	13.8
5: East and South Serbia Urban	11.0	11.3	11.3
6: East and South Serbia Rural	11.0	10.2	10.1
7: Vojvodina Urban	15.9	16.0	16.1
8: Vojvodina Rural	11.1	10.0	10.0