

## Slovakia 2023 Technical Document

### Sampling

A stratified multi-stage cluster sample design was used to complete 1,001 face-to-face surveys.

**Target Population/Coverage:** Non-institutionalized adult population (15 years of age or older) living in households. Stratification and selection used population information from Census 2021.

**Stratification:** The sampling frame was stratified by geographic region and population size levels, resulting in a total of 48 strata groups. These include the 8 geographic regions: SK010 Bratislava Region, SK021 Trnava Region, SK022 Trenčín Region, SK023 Nitra Region, SK031 Žilina Region, SK032 Banská Bystrica Region, SK041 Prešov Region and SK042 Košice Region. The regions were further stratified by 7 population size levels: less than 1000, 1000-1999, 2000-4999, 5000-19999, 20000-49999, 50000-99999, 100000+.

**Sample Selection:** Primary Sampling Units (PSUs) in Slovakia are Local Administrative Units (LAUs or cities/towns and villages). PSUs were selected using probabilities proportional to population size (PPS), where the 15+ population was the measure of size. A total of 87 PSUs were selected.

Secondary sampling units (SSUs) are streets in urban areas and villages in rural areas. SSUs were selected using Simple Random Sampling. A total of 100 SSUs were selected.

Within each selected SSU 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:** June 13, 2023 – August 3, 2023

**AAPOR3 response rate:** 65%

**Weighting:** The sample data were 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: 1.27**

**Margin of error: ± 3.5% (95% confidence level)**

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

Age, Gender, Education, Region and Urbanicity: Census 2021 - Statistical Office of the Slovak Republic

| <b>Age</b>             | <b>SAMPLE_UNWTD</b> | <b>SAMPLE_WTD</b> | <b>TARGET</b> |
|------------------------|---------------------|-------------------|---------------|
| 15-24                  | 6.9                 | 11.7              | 11.8          |
| 25-34                  | 11.8                | 16.3              | 16.4          |
| 35-44                  | 17.7                | 19.3              | 19.3          |
| 45-54                  | 15.6                | 16.7              | 16.6          |
| 55-64                  | 16.7                | 15.6              | 15.6          |
| 65+                    | 31.4                | 20.4              | 20.3          |
| <b>Education</b>       | <b>SAMPLE_UNWTD</b> | <b>SAMPLE_WTD</b> | <b>TARGET</b> |
| Primary or Less        | 19.2                | 20.4              | 20.4          |
| Secondary, Some higher | 59.2                | 57.8              | 57.8          |
| University             | 21.6                | 21.8              | 21.8          |
| <b>Sex</b>             | <b>SAMPLE_UNWTD</b> | <b>SAMPLE_WTD</b> | <b>TARGET</b> |
| Male                   | 41.7                | 48.3              | 48.5          |
| Female                 | 58.3                | 51.7              | 51.5          |
| <b>Region</b>          | <b>SAMPLE_UNWTD</b> | <b>SAMPLE_WTD</b> | <b>TARGET</b> |
| Bratislava             | 15.0                | 13.2              | 13.1          |
| Trnava                 | 10.0                | 10.5              | 10.5          |
| Trencin                | 10.0                | 10.8              | 10.8          |
| Nitra                  | 13.0                | 12.8              | 12.8          |
| Zilina                 | 12.0                | 12.7              | 12.7          |
| Banska Bystrica        | 11.0                | 11.6              | 11.6          |
| Presov                 | 14.0                | 14.4              | 14.4          |
| Kosice                 | 15.1                | 14.1              | 14.1          |
| <b>Urbanicity</b>      | <b>SAMPLE_UNWTD</b> | <b>SAMPLE_WTD</b> | <b>TARGET</b> |
| Urban                  | 54.0                | 54.2              | 54.2          |
| Rural                  | 46.0                | 45.8              | 45.8          |