

## Latvia 2023 Technical Document

### Sampling

A telephone (mobile phone only) sample design was used to complete 1,001 telephone surveys.

### Target Population/Coverage:

Adult population (15 years of age or older) who have a mobile phone for personal calls. It excludes business phone numbers. The coverage error (percentage of target population not accessible for sampling) is expected to be approximately 5%.

**Stratification:** The mobile sampling frame was implicitly stratified by the five mobile service providers in the market. The sample allocation across the strata was proportional to their market shares in terms of the count of mobile numbers they can possibly generate.

**Sample Selection:** A sample of specified size was drawn using pure Random Digit Dial (RDD) procedures among the mobile sampling frame. All sampled mobile phone numbers were pre-screened for working status. Respondents contacted by mobile telephone were screened for those aged 15 and older; no additional selection procedure was performed.

For the purpose of data collection, the total initial sample was split into random subsamples (replicate samples) and released sequentially based on the progress of interviewing in different strata. The goal was to release an optimum amount of sample each time to achieve a high response rate while completing the targeted number of interviews within the field period.

**Data Collection:** May 17, 2023 – July 11, 2023

**AAPOR3 response rate:** 10%

**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. The standard demographic variables used for post-stratification are: age, gender, education, region.

As the realized sample skewed towards more employed individuals, in addition to standard demographic adjustments, employment status (whether employed for an employer/self or not-employed) was used in the post-stratification stage. As there are no consistent population target information available for employment status, the average weighted estimate over the last 5 waves of World Poll data collection efforts was used as the target.

**Design Effect: 1.39**

**Margin of error: ± 3.6% (95% confidence level)**

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

Age, gender, region, education, urbanicity: Census 2021, Central statistical bureau of Latvia

Employment: World Poll data

<b>Age</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
15-24	6.2	10.1	10.9
25-34	13.9	14.9	15.2
35-44	21.7	16.3	16.0
45-54	21.2	16.6	16.3
55-64	20.6	17.3	16.8
65+	16.5	24.8	24.8
<b>Education</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
Secondary incomplete and lower	5.5	14.8	17.3
Secondary vocational and secondary complete	46.8	54.5	53.0
Higher education	47.8	30.7	29.8
<b>Sex</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
Male	43.8	44.6	45.2
Female	56.2	55.4	54.8
<b>Region</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
Riga	30.4	32.9	32.7
Vidzeme	10.5	9.8	9.7
Kurzeme	15.1	12.6	12.5
Zemgale	14.7	12.2	12.0
Latgale	12.6	13.4	13.7
Pieriga	16.8	19.1	19.4
<b>Employment</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
Employed	72.6	60.0	59.0
Not employed	27.4	40.0	41.0
<b>Urbanicity</b>	<b>SAMPLE_UNWTD</b>	<b>SAMPLE_WTD</b>	<b>TARGET</b>
Urban	72.2	68.8	68.5
Rural	27.7	31.1	31.4