

The Slovak Republic 2023 World Bank Enterprise Survey Implementation Report

I. Introduction

This document provides information on the World Bank Enterprise Surveys (WBES) implemented in Slovak Republic between May 2023 and May 2024. The WBES collect both objective data based on firms' day-to-day experiences, and perceptions of enterprises regarding the business environment in which they operate. The WBES currently cover over 219,000 firms in 159 countries with a total of 350 surveys since 2006. The WBES are also used to build a panel of enterprise data that will make it possible to track changes in the business environment over time.¹

This report describes the sampling design of the survey, the data set structure as well as additional information that may be useful when using the data, such as information on survey non-response and the appropriate use of the sampling weights.

II. Sampling Structure

The WBES use stratified random sampling, where the population of establishments is first separated into non-overlapping groups, called strata, and then respondents are selected through simple random sampling from each stratum. The detailed methodology is provided in the Sampling Note.² Stratified random sampling has several advantages over simple random sampling. In particular, it:

- produces unbiased estimates of the whole population or universe of inference, as well as at the levels of stratification
- ensures representativeness by including observations in all of those categories
- produces more precise estimates for a given sample size or budget allocation, and
- may reduce implementation costs by splitting the population into convenient subdivisions.

The WBES typically use three levels of stratification: industry classification, establishment size, and subnational region (used in combination). Starting in 2022, the WBES bases the industry classification on ISIC Rev. 4 (with earlier surveys using ISIC Rev. 3.1).³ For regional coverage within a country, the WBES has national coverage.

¹ A "panel interview" refers to an interview with a business that was also interviewed in the previous WBES.

² The Sampling Note is available at:

https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Sampling_Note-Consolidated-2-16-22.pdf. For further methodological background see, Richard L. Scheaffer; Mendenhall, W.; Lyman, R., "Elementary Survey Sampling", Fifth Edition, 1996.

³ The WBES universe includes: all manufacturing (ISIC 4.0 codes 10-33), services (ISIC 4.0 codes 41-43, 45-47, 49-56, 58, 61, 62, 69-75, 79, 95). Details on sectoral coverage and the WBES universe of inference can be found in the *Enterprise Surveys Manual and Guide* (p. 4).

II.1 Stratification Categories

The Slovak Republic 2023 WBES uses the following stratification categories:

- **Industry: 3 categories:**
 - Manufacturing
 - Within services: Retail, and Other Services
- **Size: 3 categories:** Small (5 to 19 employees), Medium (20 to 99 employees), Large (100 or more employees)
- **Region: 4 categories:** Bratislava Region (SK01), Western Slovakia (SK02), Central Slovakia (SK03), Eastern Slovakia (SK04)

Industry strata for the manufacturing sector were selected by their contribution to the total number of establishments according to information from the Philippines Statistical Authority's (PSA) List of Establishments (LE), updated in 2022. Similarly, the strata for the services sector were also selected by contribution to total number of establishments based on the LE database.

Region strata of the Slovak Republic 2023 WBES were selected based on administrative divisions. To achieve the minimum precision required, the regions were aggregated into two groups: (1) Bratislava Region (SK01) combined with Western Slovakia (SK02), and (2) Central Slovakia (SK03) combined with Eastern Slovakia (SK04).

II.2 Universe

The universe of inference includes all formal (i.e., registered) private sector businesses (with at least 1% private ownership) and with at least five employees. In terms of sectoral criteria, all manufacturing businesses (ISIC Rev 4. codes 10-33) are eligible; for services businesses, those corresponding to the ISIC Rev 4 codes 41-43, 45-47, 49-53, 55-56, 58, 61-62, 69-75, 79, and 95 are included in the Enterprise Surveys. Cooperatives and collectives are excluded from the Enterprise Surveys. All eligible establishments must be registered with the registration agency. The universe table is the total number of eligible establishments, and the table is partitioned by the stratification groups (industry classification, establishment size, and subnational region) in a country.

For the Slovak Republic 2023 WBES, the universe table, shown in Table 1 below, was obtained from Statistical Office of the Slovak Republic.

II.3 Sampling Frame

The WBES requires the most complete and up-to-date Sampling Frame, the list of eligible establishments with information on industry classification, size, address and other contact information that will be used to randomly select the sample. In countries where a previous round of the WBES exists, the Sampling Frame also includes the Panel Sampling Frame, which provides information about all the establishments that participated in the previous round of the WBES in the country.

The Sampling Frame for the Slovak Republic 2023 WBES was constructed from the following sources (see counts of establishments in the frame in Table 2). The Panel Sampling Frame was constructed using information on all the establishments that participated in the Slovak Republic 2019 WBES. The Fresh Sampling Frame, i.e., list of establishments that are in the WBES universe and that have not participated in the Slovak Republic 2019 WBES, was obtained from Statistical Office of the Slovak Republic.

For every WBES, necessary measures are taken to ensure the quality of the frame; however, the sample frames are not immune to the typical problems found in establishment surveys: positive rates of non-eligibility, repetition, non-existent units, etc. Given the impact that non-eligible units included in the sample universe may have on the results, eligibility adjustments may be needed when computing the appropriate sampling weights for individual observations (if and only if the weights are computed the sampling frame that is also the universe). Table 4 reports response outcomes.

II.4 Sample Design

The WBES sample design, i.e., target number of interviews in each combination of stratification categories (cells), is generated using the two primary criteria: 1) minimize the difference from the purely proportional sample within each cell; and 2) achieve a sufficient sample size by stratification category to allow for estimates of a given level of precision.⁴ Additional information on the criteria for determining the sample size by stratification category is given in the *Sampling Note*, and additional information on the sample design is given in the *Enterprise Surveys Manual and Guide*.⁵ The original survey design for the Slovak Republic 2023 WBES is given in Table 3.

III. Data Collection

The detailed information on the WBES methodology and data collection is provided in the Enterprise Surveys Manual and Guide. The interviews for the Slovak Republic 2023 WBES were conducted between May 2023 and May 2024. The interviews were conducted in Slovak.

Apart from the challenges with participation and call-backs that are standard for all surveys, the Slovak Republic 2023 WBES faced an extended delay in the fieldwork due to the critical need to replace the original vendor during the project's last phase.

III.1 Questionnaire

The standard WBES questionnaire covers several topics regarding the business environment and business performance. These topics include general firm characteristics, infrastructure, sales and supplies, management practices, competition, innovation, capacity, land

⁴ Additional constraints are also considered in the design stage. These are generally practical and include, for example, having a sufficient number of available contacts in the sample.

⁵ The *Enterprise Surveys Manual and Guide* is available at:

<https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Enterprise-Surveys-Manual-and-Guide.pdf>

and permits, finance, business-government relations, exposure to bribery, labor, and performance. Information about the general structure of the questionnaire is available in the *Enterprise Surveys Manual and Guide*.

The questionnaire implemented in the Slovak Republic 2023 WBES included additional questions tailored for the Business Ready Report covering infrastructure, trade, government regulations, finance, labor, and other topics.

III.2 Contractor

The fieldwork for the Slovak Republic 2023 WBES was implemented by two survey companies; the first phase and majority of the fieldwork was conducted Kapa Research. Ipsos Slovakia was hired to finalize the last phase of the fieldwork. The selection for the implementing agency followed the standard World Bank procurement practices that are described in more detail in the *Enterprise Surveys Manual and Guide*.

III.3 Sampling and screening

Samples are drawn by the Enterprise Surveys team in batches, following the stratification and sample design. The contractor conducted a thorough screening process before scheduling the ES interviews. Results of the screening are provided using the eligibility and status codes as listed in Table 4. In cases of unit non-response (either a refusal or an inability to obtain an interview after exhaustive attempts), the contractor proceeded with the contact that appeared next in the list drawn in the respective cell. The process of sampling and screening is described in more detail in the *Enterprise Surveys Manual and Guide*.

III.4 Survey response

In all surveys, including the WBES, some respondents choose not to participate. The Enterprise Analysis team and the contractor take all necessary measures to boost participation, through various methods of recruitment. The proper management of the screening process and sample replacement ensures that the resulting sample remains random.

The main measure of survey participation is the yield, which is the ratio of the total number of achieved interviews to the total number of contacted establishments. There are two main elements that boost yields. First is the survey participation rate, measured as the share of establishments that participated among those that can be assumed to have been eligible. The second element is the quality of frame. If only a small fraction of the contacted establishments is actually eligible to participate in the survey, then the sampling frame is far from ideal. This quality is measured by the ratio of the total number of establishments that can be assumed to be eligible for the WBES with the total number of contacted establishments in the frame. In other words:

$$\text{Yield} = \text{Survey response rate} * \text{Rate of quality of the frame}$$

which can be rewritten as follows:

$$\frac{\text{Total interviewed}}{\text{Total contacted}} = \frac{\text{Total interviewed}}{\text{Assumed eligible}} * \frac{\text{Assumed eligible}}{\text{Total contacted}}$$

Table 5 provides these measures for the Slovak Republic 2023 WBES and across its stratification levels.

III.5 Achieved Sample

Tables 6 and 7 provide count of the WBES interviews collected for each stratification cell, i.e., broken down by industry, establishment size, and region. Table 6 reports full sample, while Table 7 shows counts of only panel interviews.

III.6 Sampling Weights

Since the WBES uses stratified random sampling, individual observations should be properly weighted when making inferences about the population, since unweighted estimates are biased unless sample sizes are proportional to the size of each stratum. For each WBES, special care is given to correctly compute sampling weights. Whenever the Universe is used to draw the sample (i.e., Sampling Frame is the same as the Universe) it is imperative to accurately adjust the universe within each stratum to account for the presence of ineligible establishments (e.g., the firm discontinued businesses, or is deemed ineligible due to its business activity or having fewer than five employees). Proper treatment of panel establishments is also crucial. Details about how the WBES sampling weights are calculated are given in the *Sampling Note*.

Three versions of sampling weights are calculated, depending on the assumptions that determine eligibility of establishments to be counted towards the WBES universe. These assumptions are called weak, medium, and strong; and are defined as given in the table below. Prevalence of each of these outcomes for the Slovak Republic 2023 WBES is given in Table 4. All indicators and analysis conducted by the Enterprise Surveys team use the sampling weights based on the median assumption. Tables 8-10 report estimated universe based on the respective assumption.

Assumption	Eligibility codes for inclusion in the WBES universe
Strict	1,2,3,4,16
Median	1,2,3,4,16,10,11,13
Weak	1,2,3,4,16,10,11,13,91,92,93,94,12

For descriptions of each eligibility code, see Table 4.

III.7 Item response rates

Item response rate must be differentiated from survey response rates. The latter refers to participation in the survey itself (see Section III.4) whereas the former refers to the absence of responses to specific survey questions.⁶ The WBES, as any survey, suffer from item non-response; and different strategies are used by the data collection team to address this. In particular:

- For sensitive questions, such as on corruption or tax evasion, enumerators were instructed to collect the refusal to respond (-8) as a separate response category from don't know (-9).

⁶ The WBES questionnaire is organized so that there is always some entry in the database when the question was posed. An empty entry means that the question was not asked to the corresponding respondent, typically, due to skip patterns, or lack of applicability of that question in general.

- Establishments with incomplete information were re-contacted to fill gaps.

Table 11 provides item response rates for several key variables, broken down across the stratification levels.

III.8 Database Structure

The WBES datafiles are organized in ways that reflect the corresponding questionnaire. The variables that are standard across countries have the first letter in their name correspond to the questionnaire section where the variable belongs in the questionnaire, i.e., *a1* denotes section A. All variables are numeric with the exception of those variables with an “x” at the end of their names. The suffix “x” denotes that the variable is alpha-numeric.

The WBES datafiles contain two establishment identifiers, *idstd* and *id*. The former is a global unique identifier of each establishment, while the latter is unique identifier within each survey. The variable *idstd* can be used to match the WBES establishment one-to-one across databases. The variables *wweak*, *wmedian*, and *wstrong* corresponding to sampling weights based on, respectively, weak, median, and strong assumptions about eligibility (see Section III.6). The variable *strata* corresponds to the stratum of each observation.⁷

Additionally, the WBES datafiles contain many standard variables. The variable *d1a2_v4* denotes the main activity of the establishment, as obtained during the WBES interview, coded in the four-digit ISIC Rev. 4. Users should note that this activity may differ from the industry classification given in the Sampling Frame, *a4a*. Users are generally advised to use industry categories based on the realized information in *d1a2_v4*. Additional sampling information is contained in variables *a2* (region) and *a6a* (size). The variable *panel* identifies panel establishments, i.e., those that participated in the Slovak Republic 2019 WBES. The combination of *a4a*, *a2*, *a6a*, and *panel* forms stratum of each establishment, which is contained in variable *strata*.

The last complete fiscal year for each establishment is contained in variables *a20m* (last month of last complete fiscal year) and *a20y* (last complete fiscal year).

Note that when an entry in the WBES database is empty, this means that the question was not asked to the corresponding respondent. This happens when the question is deemed inapplicable, due to skip patterns or other reasons. In cases when the question was posed, some entry is provided, including don't know, which is an example of item non-response.

⁷ Note that the sampling weights may vary within *strata* for panel establishments due to the procedure used for projecting the universe from the previous round of the survey.

IV. Useful Links

The users of the WBES data may find the following links useful:

- *Sampling Note* is available at:
https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Sampling_Note-Consolidated-2-16-22.pdf
- The *Enterprise Surveys Manual and Guide* is available at:
<https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Enterprise-Surveys-Manual-and-Guide.pdf>
- The WBES global questionnaires are available at:
<https://www.enterprisesurveys.org/en/methodology>
- The projects that are currently being implemented by the Enterprise Surveys team are available at: <https://www.enterprisesurveys.org/en/methodology/current-projects>
- The list of all WBES databases and detailed information about each is available here:
<https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/DataDetails.xls>
- The description of the WBES indicators is available at:
<https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/Indicator-Description.pdf>

Fact Sheet

Source of Universe Table	Statistical Office of the Slovak Republic
Source of Sampling Frame	Statistical Office of the Slovak Republic
Stratification sectors	Manufacturing; Retail, and Other Services
Stratification sizes	Small (5 to 19 employees), Medium (20 to 99 employees), Large (100 or more)
Stratification regions	Bratislava Region (SK01), Western Slovakia (SK02), Central Slovakia (SK03), Eastern Slovakia (SK04)
Contractor	Kapa Research, and Ipsos Slovakia.
Fieldwork dates	May 2023 – May 2024
Interview languages	Slovak
Survey software	Survey Solutions
Currency for nominal variables	Euro
Reference fiscal year	2022 (227 obs.); 2023 (65 obs.)
Sample Size	Total: 292 Fresh: 125 Panel: 167
Survey response rates	Yield: 9% Response rate: 21% Frame quality: 40%
Item response rates	d2: 98.3% n2a: 94.5% 11: 100% all TFP vars.: 91.8%
Additional topics covered in the questionnaire	None
Additional surveys available (if any)	None

Tables

Table 1: Slovak Republic 2023 WBES Universe

		Manufacturing	Retail	Other Services	Grand Total
Bratislava Region (SK01)	Small (5-19)	521	629	3392	13,013
Bratislava Region (SK01)	Medium (20-99)	193	103	1027	
Bratislava Region (SK01)	Large (100+)	84	64	235	
Western Slovakia (SK02)	Small (5-19)	1532	1019	4214	
Western Slovakia (SK02)	Medium (20-99)	725	95	839	7,782
Western Slovakia (SK02)	Large (100+)	325	18	101	
Central Slovakia (SK03)	Small (5-19)	915	745	2901	
Central Slovakia (SK03)	Medium (20-99)	433	81	604	
Central Slovakia (SK03)	Large (100+)	197	17	67	6,466
Eastern Slovakia (SK04)	Small (5-19)	922	1017	2940	
Eastern Slovakia (SK04)	Medium (20-99)	418	70	583	
Eastern Slovakia (SK04)	Large (100+)	155	16	64	
		6,420	3,874	16,967	27,261

Source: Statistical Office of the Slovak Republic

Table 2: Slovak Republic 2023 WBES Sample Frame (Fresh and Panel Combined)

		Manufacturing	Retail	Other Services	Grand Total
Bratislava Region (SK01)	Small (5-19)	521	629	3392	13,013
Bratislava Region (SK01)	Medium (20-99)	193	103	1027	
Bratislava Region (SK01)	Large (100+)	84	64	235	
Western Slovakia (SK02)	Small (5-19)	1532	1019	4214	
Western Slovakia (SK02)	Medium (20-99)	725	95	839	7,782
Western Slovakia (SK02)	Large (100+)	325	18	101	
Central Slovakia (SK03)	Small (5-19)	915	745	2901	
Central Slovakia (SK03)	Medium (20-99)	433	81	604	
Central Slovakia (SK03)	Large (100+)	197	17	67	6,466
Eastern Slovakia (SK04)	Small (5-19)	922	1017	2940	
Eastern Slovakia (SK04)	Medium (20-99)	418	70	583	
Eastern Slovakia (SK04)	Large (100+)	155	16	64	
		6,420	3,874	16,967	27,261

Source: Source: Statistical Office of the Slovak Republic and Slovak Republic 2019 WBES

Table 3: Original Survey Design (Fresh and Panel Combined)

		Manufacturing	Retail	Other Services	Grand Total
Bratislava Region (SK01)	Small (5-19)	5	7	29	181
Bratislava Region (SK01)	Medium (20-99)	7	13	14	
Bratislava Region (SK01)	Large (100+)	13	16	16	
Western Slovakia (SK02)	Small (5-19)	11	10	40	
Western Slovakia (SK02)	Medium (20-99)	18	7	10	147
Western Slovakia (SK02)	Large (100+)	14	6	4	
Central Slovakia (SK03)	Small (5-19)	8	15	25	
Central Slovakia (SK03)	Medium (20-99)	13	16	11	
Central Slovakia (SK03)	Large (100+)	19	7	6	152
Eastern Slovakia (SK04)	Small (5-19)	7	20	23	
Eastern Slovakia (SK04)	Medium (20-99)	10	17	9	
Eastern Slovakia (SK04)	Large (100+)	20	6	8	
		145	140	195	480

Table 4: Response Outcomes

		Totals	Rates relative to total contacted
Overall	Contacts available in frame	27,261	
	Issued	5,489	
	Contacted	3,422	
Screening phase	Eligibles	623	18.2%
	Screener refusals	732	21.4%
	Assumed eligibles	1,369	40.0%
	Ineligible + out of target	422	12.3%
	Unobtainables	1,105	32.3%
Interview phase	Interview refusals	317	9.3%
(only if eligible)	Complete interviews	292	8.5%

Table 5: Survey Yield Rates

	Stratification	Yield	Survey response rate	Frame quality
Panel	Fresh	5.6%	14.4%	38.7%
	Panel	29.1%	59.0%	49.4%
Size	Small (5-19)	6.9%	16.1%	42.8%
	Medium (20-99)	13.7%	40.1%	34.2%
	Large (100+)	10.1%	28.9%	34.9%
Region	Bratislava Region (SK01)	10.2%	23.9%	42.7%
	Western Slovakia (SK02)	6.5%	16.6%	39.1%
	Central Slovakia (SK03)	8.4%	21.2%	39.6%
	Eastern Slovakia (SK04)	10.4%	26.3%	39.4%
Sector	Manufacturing	10.4%	28.0%	37.0%
	Retail	6.1%	16.3%	37.3%
	Other Services	9.2%	20.3%	45.6%
Overall	Slovak Republic 2023	8.5%	21.3%	40.0%

Notes: the rates are calculated as defined in Section III.4

Table 6: Achieved Total Sample (Fresh and Panel Combined)

		Manufacturing	Retail	Other Services	Grand Total
Bratislava Region (SK01)	Small (5-19)	11	12	20	122
Bratislava Region (SK01)	Medium (20-99)	4	5	6	
Bratislava Region (SK01)	Large (100+)	8	5	2	
Western Slovakia (SK02)	Small (5-19)	11	8	30	
Western Slovakia (SK02)	Medium (20-99)	10	1	3	86
Western Slovakia (SK02)	Large (100+)	11	1	1	
Central Slovakia (SK03)	Small (5-19)	11	11	16	
Central Slovakia (SK03)	Medium (20-99)	7	8	6	
Central Slovakia (SK03)	Large (100+)	15	3	2	97
Eastern Slovakia (SK04)	Small (5-19)	12	13	14	
Eastern Slovakia (SK04)	Medium (20-99)	7	8	6	
Eastern Slovakia (SK04)	Large (100+)	11	3	3	
		118	78	109	305

Table 7: Achieved Panel Sample

		Manufacturing	Retail	Other Services	Grand Total
Bratislava Region (SK01)	Small (5-19)	8	6	7	45
Bratislava Region (SK01)	Medium (20-99)	3	1	2	
Bratislava Region (SK01)	Large (100+)	1	1	2	
Western Slovakia (SK02)	Small (5-19)	1	2	11	
Western Slovakia (SK02)	Medium (20-99)	9	0	0	42
Western Slovakia (SK02)	Large (100+)	3	1	0	
Central Slovakia (SK03)	Small (5-19)	9	5	4	
Central Slovakia (SK03)	Medium (20-99)	6	0	5	
Central Slovakia (SK03)	Large (100+)	10	1	2	51
Eastern Slovakia (SK04)	Small (5-19)	4	8	2	
Eastern Slovakia (SK04)	Medium (20-99)	7	3	3	
Eastern Slovakia (SK04)	Large (100+)	9	2	0	
		70	30	38	138

Table 8: Weak Universe Estimates

		Manufacturing	Retail	Other Services	Grand Total
Bratislava Region (SK01)	Small (5-19)	322	387	2662	4744
Bratislava Region (SK01)	Medium (20-99)	123	65	0	
Bratislava Region (SK01)	Large (100+)	52	40	0	
Bratislava Region (SK01)	Medium and Large (20+)	0	0	1093	
Western Slovakia (SK02)	Small (5-19)	866	573	3027	9276
Western Slovakia (SK02)	Medium (20-99)	422	0	621	
Western Slovakia (SK02)	Large (100+)	185	0	73	
Western Slovakia (SK02)	Medium and Large (20+)	0	70	0	
Central Slovakia (SK03)	Small (5-19)	588	477	2371	
Central Slovakia (SK03)	Medium (20-99)	287	53	0	5659
Central Slovakia (SK03)	Large (100+)	128	11	0	
Central Slovakia (SK03)	Medium and Large (20+)	0	0	605	
Eastern Slovakia (SK04)	Small (5-19)	648	712	2627	
Eastern Slovakia (SK04)	Medium (20-99)	0	50	537	
Eastern Slovakia (SK04)	Large (100+)	0	11	58	513
Eastern Slovakia (SK04)	Medium and Large (20+)	444	0	0	
		4066	2450	13675	20191

Table 9: Median Universe Estimates

		Manufacturing	Retail	Other Services	Grand Total
Bratislava Region (SK01)	Small (5-19)	215	272	1782	2873
Bratislava Region (SK01)	Medium (20-99)	48	27	0	
Bratislava Region (SK01)	Large (100+)	26	21	0	
Bratislava Region (SK01)	Medium and Large (20+)	0	0	481	
Western Slovakia (SK02)	Small (5-19)	584	407	2044	5689
Western Slovakia (SK02)	Medium (20-99)	165	0	243	
Western Slovakia (SK02)	Large (100+)	95	0	37	
Western Slovakia (SK02)	Medium and Large (20+)	0	33	0	
Central Slovakia (SK03)	Small (5-19)	354	301	1425	
Central Slovakia (SK03)	Medium (20-99)	100	20	0	2712
Central Slovakia (SK03)	Large (100+)	58	5	0	
Central Slovakia (SK03)	Medium and Large (20+)	0	0	239	
Eastern Slovakia (SK04)	Small (5-19)	340	392	1378	
Eastern Slovakia (SK04)	Medium (20-99)	0	16	163	
Eastern Slovakia (SK04)	Large (100+)	0	5	23	181
Eastern Slovakia (SK04)	Medium and Large (20+)	153	0	0	
		2139	1499	7817	11454

Table 10: Strict Universe Estimates

		Manufacturing	Retail	Other Services	Grand Total
Bratislava Region (SK01)	Small (5-19)	94	120	939	1486
Bratislava Region (SK01)	Medium (20-99)	64	36	0	
Bratislava Region (SK01)	Large (100+)	13	10	0	
Bratislava Region (SK01)	Medium and Large (20+)	0	0	210	
Western Slovakia (SK02)	Small (5-19)	161	113	677	1904
Western Slovakia (SK02)	Medium (20-99)	139	0	246	
Western Slovakia (SK02)	Large (100+)	29	0	14	
Western Slovakia (SK02)	Medium and Large (20+)	0	8	0	
Central Slovakia (SK03)	Small (5-19)	77	66	373	
Central Slovakia (SK03)	Medium (20-99)	67	13	0	1010
Central Slovakia (SK03)	Large (100+)	15	3	0	
Central Slovakia (SK03)	Medium and Large (20+)	0	0	52	
Eastern Slovakia (SK04)	Small (5-19)	96	112	469	
Eastern Slovakia (SK04)	Medium (20-99)	0	14	170	
Eastern Slovakia (SK04)	Large (100+)	0	3	9	48
Eastern Slovakia (SK04)	Medium and Large (20+)	36	0	0	
		792	498	3158	4448

Table 11: Item Response Rates

	Screeners/Interview	d2	l1	n2a	all TFP variables
Panel	Fresh	94.0%	100.0%	91.6%	66.7%
	Panel	97.6%	100.0%	98.4%	85.9%
Size	Small (5-19)	95.4%	100.0%	92.2%	66.7%
	Medium (20-99)	96.2%	100.0%	97.5%	82.9%
	Large (100+)	94.9%	100.0%	96.6%	82.9%
Region	Bratislava Region (SK01)	97.1%	100.0%	95.7%	75.0%
	Western Slovakia (SK02)	93.0%	100.0%	93.0%	82.1%
	Central Slovakia (SK03)	98.7%	100.0%	92.0%	84.4%
	Eastern Slovakia (SK04)	93.5%	100.0%	97.4%	68.8%
Sector	Manufacturing	96.4%	100.0%	95.5%	78.4%
	Retail	96.4%	100.0%	92.9%	0.0%
	Other Services	94.4%	100.0%	94.4%	0.0%
Overall	Slovak Republic 2023	95.5%	100.0%	94.5%	77.7%

Notes: the rates are calculated as follows. The number of responses with informative content in the respective variable (or combination of variables in the case of TFP) is divided by the same number plus the number of responses that are "don't know" (code -9) or refusal (code -8).