

## **The Bosnia and Herzegovina 2023 World Bank Enterprise Survey Implementation Report**

### **I. Introduction**

This document provides information on the World Bank Enterprise Surveys (WBES) implemented in Bosnia and Herzegovina between May and December 2023. 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 207,000 firms in 158 countries with a total of 315 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.<sup>1</sup>

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.<sup>2</sup> 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).<sup>3</sup> For regional coverage within a country, the WBES has national coverage.

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

<sup>2</sup> The Sampling Note is available at:

[https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Sampling\\_Note-Consolidated-2-16-22.pdf](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.

<sup>3</sup> 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 Bosnia and Herzegovina 2023 WBES uses the following stratification categories:

- **Industry: 3 categories:**
  1. Manufacturing (ISIC Rev. 4.0, codes 10-33)
  2. Retail (ISIC Rev. 4.0 code 47)
  3. Other Services (ISIC Rev. 4.0, codes 33, 41-46, 49-53, 55,56, 58, 61, 62, 69-75, 79, 95).
- **Size: 3 categories:**
  1. Small (5 to 19 workers)
  2. Medium (20 to 99 workers)
  3. Large (100 or more workers)
- **Region: 3 categories:**
  1. Federation of Bosnia and Herzegovina
  2. Republic of Srpska
  3. Brčko District

Region strata of the Bosnia and Herzegovina 2023 WBES were selected based on administrative divisions.

## 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 municipal court. 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 Bosnia and Herzegovina 2023 WBES, the universe table, shown in Table 1 below, was obtained through Bureau van Dijk.

## 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 Bosnia and Herzegovina 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 Bosnia and Herzegovina 2023 WBES. The Fresh Sampling Frame, i.e., list of establishments that are in the WBES universe and that have not participated in the Bosnia and Herzegovina 2023 WBES, for the manufacturing sector (ISIC 4.0 codes 10-32), was obtained from Bureau van Dijk.

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.<sup>4</sup> 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*.<sup>5</sup> The original survey design for the Bosnia and Herzegovina 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 Bosnia and Herzegovina 2023 WBES were conducted between May and December 2023. The interviews were conducted in the following languages: Bosnian. For monetary variables, the currency was Convertible Mark (BAM).

### **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 and permits, finance, business-government relations, exposure to bribery, labor, and performance.

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<sup>4</sup> 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.

<sup>5</sup> The *Enterprise Surveys Manual and Guide* is available at:

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

Information about the general structure of the questionnaire is available in the *Enterprise Surveys Manual and Guide*.

The questionnaire implemented in the Herzegovina 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 Bosnia and Herzegovina 2023 WBES was implemented by Kapa Research with Smart Plus as a subcontractor. 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 Bosnia and Herzegovina 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 Bosnia and Herzegovina 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.<sup>6</sup> 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).
- Establishments with incomplete information were re-contacted to fill gaps.

<sup>6</sup> 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.

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.<sup>7</sup>

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 Bosnia and Herzegovina 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.

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<sup>7</sup> 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](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	Bureau van Dijk
Source of Sampling Frame	Bureau van Dijk
Stratification sectors	1. Manufacturing (ISIC Rev. 4.0, codes 10-33) 2. Retail (ISIC Rev. 4.0 code 47) 3. Other Services (ISIC Rev. 4.0, codes 33, 41-46, 49-53, 55,56, 58, 61, 62, 69-75, 79, 95).
Stratification sizes	1. Small (5 to 19 workers) 2. Medium (20 to 99 workers) 3. Large (100 or more workers)
Stratification regions	1. Federation of Bosnia and Herzegovina 2. Republic of Srpska 3. Brčko District
Contractor	Kapa Research with Smart Plus
Fieldwork dates	May – December 2023
Interview languages	Bosnian
Survey software	CSPRO
Currency for nominal variables	Convertible Mark
Reference fiscal year	2022 (351 obs.)
Sample Size	Total: 351      Fresh: 220      Panel: 131
Survey response rates	Yield: 28.7% Response rate: 52.0% Frame quality: 55.1%
Item response rates	d2: 99.7% n2a: 100.0% 11: 100.0% all TFP vars.: 33.6%
Additional topics covered in the questionnaire	
Additional surveys available (if any)	



## Tables

**Table 1: Bosnia and Herzegovina 2023 WBES Universe**

		Manufacturing	Retail	Other Services	Grand Total
<b>Federation of Bosnia and Herzegovina</b>	Small (5-19)	840	922	2686	<b>6,580</b>
<b>Federation of Bosnia and Herzegovina</b>	Medium (20-99)	503	237	947	
<b>Federation of Bosnia and Herzegovina</b>	Large (100 or more)	222	61	162	
<b>Republic of Srpska</b>	Small (5-19)	506	535	1278	<b>3,426</b>
<b>Republic of Srpska</b>	Medium (20-99)	296	141	453	
<b>Republic of Srpska</b>	Large (100 or more)	104	32	81	
<b>Brčko District</b>	Small (5-19)	78	174	148	<b>513</b>
<b>Brčko District</b>	Medium (20-99)	23	40	36	
<b>Brčko District</b>	Large (100 or more)	10	2	2	
		<b>2,582</b>	<b>2,144</b>	<b>5,793</b>	<b>10,519</b>

Source:

**Table 2: Bosnia and Herzegovina 2023 WBES Sample Frame (Fresh and Panel Combined)**

		Manufacturing	Retail	Services	Grand Total
<b>Federation of Bosnia and Herzegovina</b>	Small (5-19)	840	922	2686	<b>6,580</b>
<b>Federation of Bosnia and Herzegovina</b>	Medium (20-99)	503	237	947	
<b>Federation of Bosnia and Herzegovina</b>	Large (100 or more)	222	61	162	
<b>Republic of Srpska</b>	Small (5-19)	506	535	1278	<b>3,426</b>
<b>Republic of Srpska</b>	Medium (20-99)	296	141	453	
<b>Republic of Srpska</b>	Large (100 or more)	104	32	81	
<b>Brčko District</b>	Small (5-19)	78	174	148	<b>513</b>
<b>Brčko District</b>	Medium (20-99)	23	40	36	
<b>Brčko District</b>	Large (100 or more)	10	2	2	
		<b>2,582</b>	<b>2,144</b>	<b>5,793</b>	<b>10,519</b>

Source:

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

		Manufacturing	Retail	Services	Grand Total
Federation of Bosnia and Herzegovina	Small (5-19)	9	10	36	<b>140</b>
Federation of Bosnia and Herzegovina	Medium (20-99)	11	10	14	
Federation of Bosnia and Herzegovina	Large (100 or more)	28	15	7	
Republic of Srpska	Small (5-19)	7	10	14	<b>120</b>
Republic of Srpska	Medium (20-99)	13	16	12	
Republic of Srpska	Large (100 or more)	23	17	8	
Brčko District	Small (5-19)	12	21	11	<b>100</b>
Brčko District	Medium (20-99)	11	20	17	
Brčko District	Large (100 or more)	6	1	1	
		<b>120</b>	<b>120</b>	<b>120</b>	<b>360</b>

**Table 4: Response Outcomes**

		Totals	Rates relative to total contacted
Overall	Contacts available in frame	10,519	
	Issued	1,406	
	Contacted	1,224	
Screening phase	Eligibles	612	50.0%
	Screeners refusals	61	5.0%
	Assumed eligibles	675	55.1%
	Ineligible + out of target	73	6.0%
	Unobtainables	478	39.1%
Interview phase	Interview refusals	236	19.3%
(only if eligible)	Complete interviews	351	28.7%

**Table 5: Survey Yield Rates**

	Stratification	Yield	Survey response rate	Frame quality
Panel	Fresh	25.5%	47.1%	54.2%
	Panel	36.2%	63.0%	57.5%
Size	Small (5-19)	26.0%	47.2%	55.1%
	Medium (20-99)	31.4%	56.4%	55.7%
	Large (100+)	29.5%	54.0%	54.6%
Region	Federation of Bosnia and Herzegovina	27.3%	53.6%	50.9%
	Republic of Srpska	31.4%	57.7%	54.5%
	Brčko District	27.3%	42.2%	64.8%
Sector	Manufacturing	29.7%	51.5%	57.7%
	Retail	27.7%	48.9%	56.5%
	Services	28.7%	55.9%	51.3%
Overall	Bosnia and Herzegovina 2023	28.7%	52.0%	55.1%

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

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

		Manufacturing	Retail	Services	Grand Total
<b>Federation of Bosnia and Herzegovina</b>	Small (5-19)	19	13	28	<b>150</b>
<b>Federation of Bosnia and Herzegovina</b>	Medium (20-99)	12	17	21	
<b>Federation of Bosnia and Herzegovina</b>	Large (100 or more)	23	9	8	
<b>Republic of Srpska</b>	Small (5-19)	5	6	15	<b>128</b>
<b>Republic of Srpska</b>	Medium (20-99)	10	16	9	
<b>Republic of Srpska</b>	Large (100 or more)	34	12	21	
<b>Brčko District</b>	Small (5-19)	8	25	8	<b>73</b>
<b>Brčko District</b>	Medium (20-99)	8	13	9	
<b>Brčko District</b>	Large (100 or more)	1	1	N/A	
		<b>120</b>	<b>112</b>	<b>119</b>	<b>351</b>

**Table 7: Achieved Panel Sample**

		Manufacturing	Retail	Services	Grand Total
<b>Federation of Bosnia and Herzegovina</b>	Small (5-19)	11	3	5	<b>80</b>
<b>Federation of Bosnia and Herzegovina</b>	Medium (20-99)	6	15	14	
<b>Federation of Bosnia and Herzegovina</b>	Large (100 or more)	15	5	6	
<b>Republic of Srpska</b>	Small (5-19)	1	3	6	<b>37</b>
<b>Republic of Srpska</b>	Medium (20-99)	7	2	5	
<b>Republic of Srpska</b>	Large (100 or more)	5	4	4	
<b>Brčko District</b>	Small (5-19)	2	3	7	<b>14</b>
<b>Brčko District</b>	Medium (20-99)	1	0	1	
		<b>48</b>	<b>35</b>	<b>48</b>	<b>131</b>

**Table 8: Weak Universe Estimates**

		Manufacturing	Retail	Services	Grand Total
Federation of Bosnia and Herzegovina	Small (5-19)	857	925	2715	<b>6567</b>
Federation of Bosnia and Herzegovina	Medium (20-99)	490	227	913	
Federation of Bosnia and Herzegovina	Large (100 or more)	221	60	160	
Republic of Srpska	Small (5-19)	493	512	1233	<b>3263</b>
Republic of Srpska	Medium (20-99)	275	129	417	
Republic of Srpska	Large (100 or more)	99	30	76	
Brčko District	Small (5-19)	72	157	135	<b>455</b>
Brčko District	Medium (20-99)	20	34	0	
Brčko District	Large (100 or more)	9	2	0	
Brčko District	Medium and Large (20+)	0	0	27	
		<b>2536</b>	<b>2075</b>	<b>5674</b>	<b>10285</b>

**Table 9: Median Universe Estimates**

		Manufacturing	Retail	Services	Grand Total
Federation of Bosnia and Herzegovina	Small (5-19)	408	449	1113	<b>2941</b>
Federation of Bosnia and Herzegovina	Medium (20-99)	250	119	402	
Federation of Bosnia and Herzegovina	Large (100 or more)	106	29	65	
Republic of Srpska	Small (5-19)	289	307	624	<b>1817</b>
Republic of Srpska	Medium (20-99)	174	83	227	
Republic of Srpska	Large (100 or more)	58	18	38	
Brčko District	Small (5-19)	53	117	85	<b>332</b>
Brčko District	Medium (20-99)	16	28	0	
Brčko District	Large (100 or more)	7	1	0	
Brčko District	Medium and Large (20+)	0	0	25	
		<b>1360</b>	<b>1151</b>	<b>2579</b>	<b>5090</b>

**Table 10: Strict Universe Estimates**

		Manufacturing	Retail	Services	Grand Total
Federation of Bosnia and Herzegovina	Small (5-19)	316	357	894	<b>2363</b>
Federation of Bosnia and Herzegovina	Medium (20-99)	201	98	334	
Federation of Bosnia and Herzegovina	Large (100 or more)	86	23	53	
Republic of Srpska	Small (5-19)	250	272	558	<b>1622</b>
Republic of Srpska	Medium (20-99)	155	76	210	
Republic of Srpska	Large (100 or more)	51	16	35	
Brčko District	Small (5-19)	46	106	77	<b>302</b>
Brčko District	Medium (20-99)	14	26	0	
Brčko District	Large (100 or more)	6	1	0	
Brčko District	Medium and Large (20+)	0	0	25	
		<b>1124</b>	<b>976</b>	<b>2187</b>	<b>4287</b>

**Table 11: Item Response Rates**

	Screener/Interview	d2	l1	n2a	all TFP variables
Panel	Fresh	100.0%	100.0%	100.0%	31.0%
	Panel	99.2%	100.0%	100.0%	38.3%
Size	Small (5-19)	99.3%	100.0%	100.0%	33.3%
	Medium (20-99)	100.0%	100.0%	100.0%	35.1%
	Large (100+)	100.0%	100.0%	100.0%	32.8%
Region	Federation of Bosnia and Herzegovina	100.0%	100.0%	100.0%	21.8%
	Republic of Srpska	100.0%	100.0%	100.0%	43.8%
	Brčko District	98.6%	100.0%	100.0%	33.3%
Sector	Manufacturing	100.0%	100.0%	100.0%	33.6%
	Retail	98.9%	100.0%	100.0%	0.0%
	Other Services	100.0%	100.0%	100.0%	0.0%
Overall	Bosnia and Herzegovina 2023	99.7%	100.0%	100.0%	33.6%

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).