

## **The Paraguay 2023 World Bank Enterprise Survey Implementation Report**

### **I. Introduction**

This document provides information on the World Bank Enterprise Surveys (WBES) implemented in Paraguay between June 2023 and February 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 180,000 firms in 154 countries with a total of 306 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 Paraguay 2023 WBES uses the following stratification categories:

- **Industry: 3 categories:**
  - Manufacturing
  - Retail
  - Other Services
- **Size: 3 categories:** Small (5 to 19 employees), Medium (20 to 99 employees), Large (100 or more employees)
- **Region: 3 categories:** Asunción; Central; Others

Industry strata for the manufacturing sector were selected by their contribution to total number of establishments obtained using the list provided by the Dirección Nacional de Ingresos Tributarios, Subsecretaría de Estado de Tributación (SET). By number of establishments, the manufacturing sectors stratified separately represent 10% of the whole ES universe.

The strata for the services sector were selected by contribution to total number of establishments. The sectors stratified separately represent 35% and 55% of the total number of establishments of the whole ES universe in the retail and other services sector, respectively.

Region strata of the Paraguay 2023 WBES were selected based on administrative divisions, with some territories grouped together to achieve minimum required precision of estimates at the level of each stratification region.

## 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. In the case of Paraguay, the definition of registration with the Ministerio de Hacienda was used. 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 Paraguay 2023 WBES, the estimated universe table are shown in Table 1 below based on a list published by the SET as of May 2023.

The information in Table 1 reports an adjusted universe using the information obtained through the screening process. We adjusted the establishment counts to align with the standard size categories utilized in the Enterprise Survey, where small is defined as 5 to 19 employees, medium as 20 to 99 employees, and large as 100 employees or more.

## 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 Paraguay 2023 WBES was constructed from the following sources (see counts of establishments in Table 1). The Panel Sampling Frame was constructed using information on all the establishments that participated in the Paraguay 2017 WBES. The Fresh Sampling Frame was obtained from an initial list of firms as of May 2023 obtained from the SET (Superintendencia de Empresas del Estado). Specifically, we utilized the list of firms registered with the SET as legal entities (personas jurídicas). The data base provides information on the company name, tax identification, and size, according four size categories computed using firm revenues: micro (1-10 employees), small (11-30 employees), medium (31-50 employees), and large (more than 51 employees). We also created an additional size category (unknown) to account for the absence of information on size. To supplement this data with information on location and economic sector, we conducted searches in publicly available sources such as the Public Secretary (<https://informacionpublica.paraguay.gov.py/#!/>), the Secretary of Commerce and Industries (<https://datos.vue.gov.py/>), and cross-referenced some information with the portal on publicly procured contracts (<https://www.contrataciones.gov.py/buscador/proveedores.html>).

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 when the sampling frame is also the universe). Table 3 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*

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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.

*Surveys Manual and Guide*.<sup>5</sup> The original survey design for the Paraguay 2023 WBES is given in Table 2.

### **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 Paraguay 2023 WBES were conducted between June 2023 and February 2024. The interviews were conducted in Spanish. For monetary variables, the currency was Paraguayan guaraníes. The Paraguay 2023 WBES faced the usual challenges with participation and call-backs that are standard for all surveys.

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

The questionnaire implemented in the Paraguay 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 Paraguay 2023 WBES was implemented by Kapa Research and the local sub-contractor Nauta. 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 3. 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,

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<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>

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. The first element 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 the 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:

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

which can be rewritten as follows:

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

Table 4 provides these measures for the Paraguay 2023 WBES and across its stratification levels.

### **III.5 Achieved Sample**

Tables 5 and 6 provide count of the WBES interviews collected for each stratification cell, i.e., broken down by industry, establishment size, and region. Table 5 reports full sample, while Table 6 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 Paraguay 2023 WBES is given in Table 3. All indicators and analysis conducted by the Enterprise Surveys team use the sampling weights based

on the median assumption. Tables 7-9 report estimated universe based on the respective assumption.

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

For descriptions of each eligibility code, see Table 3.

### 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.

Table 10 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

<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.

<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.

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 Paraguay 2017 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.



#### 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	Dirección Nacional de Ingresos Tributarios (Subsecretaría de Estado de Tributación, SET)
Source of Sampling Frame	Dirección Nacional de Ingresos Tributarios (Subsecretaría de Estado de Tributación, SET), Portal Unificado de Información Pública, Ministerio de Industria y Comercio, Dirección Nacional de Contrataciones Públicas
Stratification sectors	Manufacturing; Retail; and Other Services
Stratification sizes	Small (5 to 19 employees), Medium (20 to 99 employees), Large (100 or more employees)
Stratification regions	Asunción; Central; Others
Contractor	Kapa Research with Nauta
Fieldwork dates	June 2023 – February 2024
Interview languages	Spanish
Survey software	Survey Solutions
Currency for nominal variables	Paraguayan guaraníes
Reference fiscal year	2022 (378 obs.)
Sample Size	Total: 378      Fresh: 283      Panel: 95
Survey response rates	Yield: 53.8% Response rate: 54.1% Frame quality: 99.6%
Item response rates	d2: 96.8% n2a: 99.7% 11: 93.4% all TFP vars.: 44.9%
Additional topics covered in the questionnaire	None
Additional surveys available (if any)	None

## Tables

**Table 1: Paraguay 2023 WBES Estimated Sample Frame and Adjusted Universe**

		<b>Manufacturing</b>	<b>Retail</b>	<b>Other services</b>	<b>Grand Total</b>
<b>Asunción</b>	Small (5-19)	906	2542	9679	<b>22,426</b>
<b>Asunción</b>	Medium (20 - 99)	392	902	4622	
<b>Asunción</b>	Large (100+)	174	38	3171	
<b>Central</b>	Small (5-19)	1241	1600	7372	<b>15,144</b>
<b>Central</b>	Medium (20 - 99)	854	558	1773	
<b>Central</b>	Large (100+)	140	412	1194	
<b>Others</b>	Small (5-19)	1346	4372	8852	<b>20,165</b>
<b>Others</b>	Medium (20 - 99)	182	575	2536	
<b>Others</b>	Large (100+)	270	626	1406	
		<b>5,505</b>	<b>11,625</b>	<b>40,605</b>	<b>57,735</b>

Source: Estimates based on screening data and Dirección Nacional de Ingresos Tributarios.

**Table 2: Original Survey Design (Fresh and Panel Combined)**

		<b>Manufacturing</b>	<b>Retail</b>	<b>Other Services</b>	<b>Grand Total</b>
<b>Asunción</b>	Small (5-19)	16	9	18	<b>124</b>
<b>Asunción</b>	Medium (20 - 99)	16	12	16	
<b>Asunción</b>	Large (100+)	16	9	12	
<b>Central</b>	Small (5-19)	14	10	17	<b>109</b>
<b>Central</b>	Medium (20 - 99)	19	11	15	
<b>Central</b>	Large (100+)	12	3	8	
<b>Others</b>	Small (5-19)	9	26	34	<b>145</b>
<b>Others</b>	Medium (20 - 99)	13	20	23	
<b>Others</b>	Large (100+)	9	5	6	
		<b>124</b>	<b>105</b>	<b>149</b>	<b>378</b>

**Table 3: Response Outcomes**

		<b>Totals</b>	<b>Rates relative to total contacted</b>
Overall	Contacts available in frame	59,965	
	Issued	4,197	
	Contacted	3,400	
Screening phase	Eligibles	817	24.0%
	Screener refusals	62	1.8%
	Assumed eligibles	879	25.9%
	Ineligible + out of target	30	0.9%
	Unobtainables	2,491	73.3%
Interview phase (only if eligible)	Interview refusals	402	11.8%
	Complete interviews	378	11.1%

**Table 4: Survey Yield Rates**

		<b>Yield</b>	<b>Survey response rate</b>	<b>Frame quality</b>
Panel	Fresh	57.2%	57.4%	99.6%
	Panel	45.9%	46.1%	99.5%
Size	Small (5-19)	66.8%	67.1%	99.6%
	Medium (20-99)	46.5%	46.6%	99.7%
	Large (100+)	49.7%	50.0%	99.4%
Region	Asunción	49.2%	49.4%	99.6%
	Central	50.7%	51.2%	99.1%
	Others	61.7%	61.7%	100.0%
Sector	Manufacturing	49.8%	50.0%	99.6%
	Retail	61.8%	61.8%	100.0%
	Other Services	52.7%	53.0%	99.3%
Overall	Paraguay 2023	53.8%	54.1%	99.6%

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

**Table 5: Achieved Total Sample (Fresh and Panel Combined)**

		<b>Manufacturing</b>	<b>Retail</b>	<b>Other Services</b>	<b>Grand Total</b>
<b>Asunción</b>	Small (5-19)	16	9	18	<b>124</b>
<b>Asunción</b>	Medium (20 - 99)	16	12	16	
<b>Asunción</b>	Large (100+)	16	9	12	
<b>Central</b>	Small (5-19)	14	10	17	<b>109</b>
<b>Central</b>	Medium (20 - 99)	19	11	15	
<b>Central</b>	Large (100+)	12	3	8	
<b>Others</b>	Small (5-19)	9	26	34	<b>145</b>
<b>Others</b>	Medium (20 - 99)	13	20	23	
<b>Others</b>	Large (100+)	9	5	6	
		<b>124</b>	<b>105</b>	<b>149</b>	<b>378</b>

**Table 6: Achieved Panel Sample**

		<b>Manufacturing</b>	<b>Retail</b>	<b>Other Services</b>	<b>Grand Total</b>
<b>Asunción</b>	Small (5-19)	6	5	11	<b>59</b>
<b>Asunción</b>	Medium (20 - 99)	5	4	7	
<b>Asunción</b>	Large (100+)	10	3	8	
<b>Central</b>	Small (5-19)	3	2	3	<b>36</b>
<b>Central</b>	Medium (20 - 99)	7	4	6	
<b>Central</b>	Large (100+)	5	1	5	
<b>Others</b>	Small (5-19)	0	0	0	<b>0</b>
<b>Others</b>	Medium (20 - 99)	0	0	0	
<b>Others</b>	Large (100+)	0	0	0	
		<b>36</b>	<b>19</b>	<b>40</b>	<b>95</b>

**Table 7: Weak Universe Estimates**

		Manufacturing	Retail	Other Services	Grand Total
<b>Asunción</b>	Small (5-19)	666	1496	4111	<b>10,800</b>
<b>Asunción</b>	Medium (20-99)	312	1290	1937	
<b>Asunción</b>	Large (100+)	105	144	739	
<b>Central</b>	Small (5-19)	1473	3736	5368	<b>15,760</b>
<b>Central</b>	Medium (20-99)	658	1262	2907	
<b>Central</b>	Large (100+)	122	64	170	
<b>Others</b>	Small (5-19)	1301	5870	7570	<b>22,676</b>
<b>Others</b>	Medium (20-99)	207	3140	2781	
<b>Others</b>	Large (100+)	237	523	1045	
		<b>5,083</b>	<b>17,524</b>	<b>26,629</b>	<b>49,236</b>

**Table 8: Median Universe Estimates**

		Manufacturing	Retail	Other Services	Grand Total
<b>Asunción</b>	Small (5-19)	189	273	784	<b>2,389</b>
<b>Asunción</b>	Medium (20-99)	94	249	457	
<b>Asunción</b>	Large (100+)	45	50	249	
<b>Central</b>	Small (5-19)	306	501	770	<b>2,514</b>
<b>Central</b>	Medium (20-99)	160	197	460	
<b>Central</b>	Large (100+)	50	17	52	
<b>Others</b>	Small (5-19)	252	770	1033	<b>3,344</b>
<b>Others</b>	Medium (20-99)	48	456	475	
<b>Others</b>	Large (100+)	66	89	155	
		<b>1,211</b>	<b>2,600</b>	<b>4,435</b>	<b>8,247</b>

**Table 9: Strict Universe Estimates**

		Manufacturing	Retail	Other Services	Grand Total
<b>Asunción</b>	Small (5-19)	154	232	626	<b>1,977</b>
<b>Asunción</b>	Medium (20-99)	78	196	380	
<b>Asunción</b>	Large (100+)	42	48	222	
<b>Central</b>	Small (5-19)	269	448	679	<b>2,232</b>
<b>Central</b>	Medium (20-99)	153	179	377	
<b>Central</b>	Large (100+)	53	18	57	
<b>Others</b>	Small (5-19)	232	686	895	<b>2,989</b>
<b>Others</b>	Medium (20-99)	42	421	426	
<b>Others</b>	Large (100+)	63	86	138	
		<b>1,085</b>	<b>2,314</b>	<b>3,799</b>	<b>7,198</b>

**Table 10: Item Response Rates**

	<b> Screener/Interview</b>	<b>d2</b>	<b>l1</b>	<b>n2a</b>	<b>all TFP variables</b>
Panel	Fresh	96.1%	99.6%	91.9%	44.4%
	Panel	98.9%	100.0%	97.9%	45.7%
Size	Small (5-19)	97.3%	100.0%	95.9%	48.5%
	Medium (20-99)	96.6%	100.0%	92.6%	51.4%
	Large (100+)	96.4%	98.8%	90.5%	35.9%
Region	Asunción	96.9%	99.2%	93.0%	47.6%
	Central	98.1%	100.0%	95.3%	57.6%
	Others	95.8%	100.0%	92.3%	28.1%
Sector	Manufacturing	98.1%	100.0%	96.3%	44.9%
	Retail	96.2%	99.5%	91.3%	NA
	Other Services	96.6%	100.0%	94.3%	NA
Overall	Paraguay 2023	96.8%	99.7%	93.4%	44.9%

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).