

## **The Trinidad and Tobago 2025 World Bank Enterprise Survey Implementation Report**

### **I. Introduction**

This document provides information on the World Bank Enterprise Surveys (WBES) implemented in Trinidad and Tobago between September 2024 and April 2025. 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 232,000 firms in 162 economies with a total of 385 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 Trinidad and Tobago 2024 WBES uses the following stratification categories:

- **Industry:**
  1. Manufacturing (ISIC Rev 4.0 codes 10-33)
  2. Retail (ISIC Rev 4 code 47)
  3. Other Services (ISIC Rev 4 codes 41-43, 45-46, 49-53, 55-56, 58, 61-62, 69-75, 79, 95)
  
- **Size:**
  - Small (5 to 19 employees)
  - Medium (20 to 99 employees)
  - Large (100 or more employees)
  - Unknown size
  
- **Region:**
  - Port of Spain
  - Rest of country

For the computation of the indicators the two regions were combined into one: Trinidad and Tobago; and the Retail and Other Services sectors were combined into one: Services (Retail and Other Services).

## 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 Registrar General's Department (RGD) of Trinidad and Tobago.<sup>4</sup> 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 Trinidad and Tobago 2024 WBES, the information for the universe table, shown in Table 1 below, was obtained from the Trinidad and Tobago Central Statistical Office's Business Surveys Establishment Register 2019.<sup>5</sup>

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<sup>4</sup> See page 210, section 14 ("Registration Information") of "All India Report of Sixth Economic Census" available here: <https://msme.gov.in/sites/default/files/All%20India%20Report%20of%20Sixth%20Economic%20Census.pdf>

<sup>5</sup> Attempts were made to obtain the universe table from the 7<sup>th</sup> Economic Census, which started in 2019. However, the data was not yet finalized or made available during the preparation phase of the India ES.

### 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 Trinidad and Tobago 2024 WBES was constructed from the following sources (see counts of establishments in the frame in Table 2). The Fresh Sampling Frame, for both the manufacturing sector (ISIC 4.0 codes 10-32) and the services sector (ISIC 4.0 codes 41-43, 45-47, 49-56, 58, 61, 62, 69-75, 79, 95), was obtained from the Trinidad and Tobago Central Statistical Office’s Business Surveys Establishment Register 2019. Mercaplan carried out a screening exercise prior to fieldwork to a random sample of around 1,300 firms in the unknown size category. This allowed to update the data as much as possible within the timeframe and allow for the estimation of the number of eligible firms within the unknown size category. Both the universe and sample frame were adjusted using this information.

Due to an agreement with the Inter-American Development Bank, and since both organizations were to carry out surveys in Trinidad and Tobago in similar timeframes, sampling frame information was divided randomly between the two organizations to reduce survey fatigue.

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 universe equals the sampling frame (that is the weights project to universe totals by cell, coming from the sampling frame). 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>6</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>6</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>7</sup> The original survey design for the Trinidad and Tobago 2024 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 Trinidad and Tobago 2024 WBES were conducted between September 2024 and April 2025. The interviews were conducted in English. For monetary variables, the currency was Trinidad and Tobago dollars (TTDs).

Apart from the challenges with participation and call-backs that are standard for all surveys, the Trinidad and Tobago 2024 WBES faced challenges with engaging firms to participate, and multiple efforts were made to promote firm participation.

#### **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, trade, 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*.

#### **III.2 Contractor**

The fieldwork for the Trinidad and Tobago 2024 WBES was implemented by Mercaplan, with Hope Research and VagusMRI. 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,

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<sup>7</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. 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:

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

which can be rewritten as follows:

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

Table 5 provides these measures for the Trinidad and Tobago 2024 WBES and across its stratification levels.

### III.5 Achieved Sample

Tables 6 and 7 provide counts 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 Trinidad and Tobago 2024 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
Median	1,2,3,4,10,11,13, 113
Weak	1,2,3,4,10,11,13,91,92,93,94,12

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>8</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 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>9</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

<sup>8</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>9</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.

establishments, i.e., those that participated in the Trinidad and Tobago 2010 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	Central Statistical Office of Trinidad and Tobago
Source of Sampling Frame	Central Statistical Office of Trinidad and Tobago
Levels of Universe Table and Sampling Frame	Universe Table: Establishment-level Sampling Frame: Establishment-level
Registration agency	Registrar General's Department (RGD) of Trinidad and Tobago
Stratification sectors	Manufacturing, Retail and Other Services
Stratification sizes	Small (5 to 19 employees), Medium (20 to 99 employees), Large (100-199), and Unknown
Stratification regions	Port of Spain and Rest of Country
Contractor	Mercaplan (with Hope Research and VagusMRI)
Fieldwork dates	September 2024 – April 2025
Interview languages	English
Survey software	Survey Solutions
Currency for nominal variables	Trinidad and Tobago dollars (TTDs)
Reference fiscal year	2023 (27 obs.), 2024 (86 obs.), 2025 (1 obs.)
VAT Applicable	Yes
Additional definitions	“Consumption Tax” was referred to as VAT. “Occupancy Permit” was referred to as “Occupancy Certificate”. For the capital city (a3b), Port of Spain was entered; for the main business city (a3c), Port of Spain was entered.
Sample Size	Total: 114
Survey response rates	Yield: 4.4% Response rate: 21.7% Frame quality: 20.1%
Item response rates	d2: 86% n2a: 86.8% 11: 99.1% all TFP vars.: 53.3%
Additional topics covered in the questionnaire	N/A
Additional surveys available (if any)	N/A

## Tables

**Table 1: Trinidad and Tobago 2024 WBES Universe**

		Manufacturing	Retail	Other Services	Grand Total
<b>Port of Spain</b>	Small (5-19)	43	193	387	<b>880</b>
<b>Port of Spain</b>	Medium (20-99)	8	38	101	
<b>Port of Spain</b>	Large (100-199)	4	8	43	
<b>Port of Spain</b>	Unknown	1	15	39	
<b>Rest of the country</b>	Small (5-19)	267	737	1326	<b>3,751</b>
<b>Rest of the country</b>	Medium (20-99)	132	130	408	
<b>Rest of the country</b>	Large (100-199)	76	28	118	
<b>Rest of the country</b>	Unknown	11	148	370	
		<b>531</b>	<b>1,149</b>	<b>2,422</b>	<b>4,631</b>

Source: Central Statistical Office of Trinidad and Tobago (Establishment-level)

**Table 2: Trinidad and Tobago 2024 WBES Sample Frame (Fresh and Panel Combined)**

		Manufacturing	Retail	Other Services	Grand Total
<b>Port of Spain</b>	Small (5-19)	22	97	193	<b>470</b>
<b>Port of Spain</b>	Medium (20-99)	5	21	50	
<b>Port of Spain</b>	Large (100 or more)	2	4	21	
<b>Port of Spain</b>	Unknown	1	15	39	
<b>Rest of the country</b>	Small (5-19)	134	369	665	<b>2144</b>
<b>Rest of the country</b>	Medium (20-99)	66	65	203	
<b>Rest of the country</b>	Large (100 or more)	38	14	61	
<b>Rest of the country</b>	Unknown	11	148	370	
		<b>279</b>	<b>733</b>	<b>1,602</b>	<b>2,614</b>

Source: Central Statistical Office of Trinidad and Tobago (Establishment-level)

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

		Manufacturing	Retail	Other Services	Grand Total
<b>Port of Spain</b>	Small (5-19)	15	17	13	<b>106</b>
<b>Port of Spain</b>	Medium (20-99)	2	9	20	
<b>Port of Spain</b>	Large (100-199)	2	3	19	
<b>Port of Spain</b>	Unknown	1	3	2	
<b>Rest of the country</b>	Small (5-19)	13	39	50	<b>254</b>
<b>Rest of the country</b>	Medium (20-99)	30	21	23	
<b>Rest of the country</b>	Large (100-199)	35	14	12	
<b>Rest of the country</b>	Unknown	1	5	11	
		<b>99</b>	<b>111</b>	<b>150</b>	<b>360</b>

**Table 4: Response Outcomes**

		Totals	Rates relative to total contacted
Overall	Contacts available in frame	2,614	
	Issued	2,614	
	Contacted	2,614	
Screening phase	Eligibles	165	6.3%
	Screener refusals	130	5.0%
	Assumed eligibles	525	20.1%
	Ineligible + out of target	98	3.7%
	Unobtainables	2,221	85.0%
Interview phase (only if eligible)	Interview refusals	50	1.9%
	Complete interviews	114	4.4%

**Table 5: Survey Yield Rates**

	<b>Stratification</b>	<b>Yield</b>	<b>Survey response rate</b>	<b>Frame quality</b>
Size	Small (5-19)	4.1%	21.2%	19.1%
	Medium (20-99)	2.0%	8.6%	22.7%
Region	Port of Spain	1.9%	11.8%	16.2%
	Rest of the country	4.9%	23.4%	20.9%
Sector	Manufacturing	1.8%	9.4%	19.0%
	Retail	2.6%	20.9%	12.4%
	Other Services	5.6%	23.6%	23.8%
Overall	Trinidad and Tobago 2025	4.4%	21.7%	20.1%

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

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

		<b>Manufacturing</b>	<b>Retail</b>	<b>Other Services</b>	<b>Grand Total</b>
<b>Port of Spain</b>	Small (5-19)	0	5	2	<b>62</b>
<b>Port of Spain</b>	Medium (20-99)	0	0	1	
<b>Port of Spain</b>	Unknown	0	1	0	
<b>Rest of the country</b>	Small (5-19)	4	8	41	
<b>Rest of the country</b>	Medium (20-99)	1	3	3	<b>52</b>
<b>Rest of the country</b>	Large (100 or more)	0	0	2	
<b>Rest of the country</b>	Unknown	0	2	41	
		<b>5</b>	<b>19</b>	<b>90</b>	<b>114</b>

**Table 7: Weak Universe Estimates**

		<b>Manufacturing</b>	<b>Retail and Other Services</b>	<b>Grand Total</b>
<b>Trinidad and Tobago</b>	Medium (20-99)	136	646	<b>4379</b>
<b>Trinidad and Tobago</b>	Large (100+)	0	191	
<b>Trinidad and Tobago</b>	Small (5-19) and Unknown	315	3090	
		<b>451</b>	<b>3927</b>	<b>4379</b>

**Table 8: Median Universe Estimates**

		<b>Manufacturing</b>	<b>Retail and Other Services</b>	<b>Grand Total</b>
<b>Trinidad and Tobago</b>	Medium (20-99)	30	155	<b>918</b>
<b>Trinidad and Tobago</b>	Large (100+)	0	37	
<b>Trinidad and Tobago</b>	Small (5-19) and Unknown	60	637	
		<b>90</b>	<b>828</b>	<b>918</b>

**Table 9: Strict Universe Estimates**

		<b>Manufacturing</b>	<b>Retail and Other Services</b>	<b>Grand Total</b>
<b>Trinidad and Tobago</b>	Medium (20-99)	3	26	<b>287</b>
<b>Trinidad and Tobago</b>	Large (100+)	0	6	
<b>Trinidad and Tobago</b>	Small (5-19) and Unknown	16	236	
		<b>19</b>	<b>268</b>	<b>287</b>

**Table 11: Item Response Rates**

<b>Screeners/Interview</b>		<b>d2</b>	<b>l1</b>	<b>n2a</b>	<b>all TFP variables</b>
Size	Small (5-19)	89.3%	99.0%	90.3%	53.8%
	Medium (20-99)	60.0%	100.0%	60.0%	100.0%
	Large (100+)	0.0%	100.0%	0.0%	0.0%
Region	Trinidad and Tobago	86.0%	99.1%	86.8%	53.3%
Sector	Manufacturing	80.0%	93.3%	73.3%	53.3%
	Services	86.9%	100.0%	88.9%	N/A
Overall	Trinidad and Tobago 2025	86.0%	99.1%	86.8%	53.3%

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).