

The Czechia 2024 World Bank Enterprise Survey Implementation Report

I. Introduction

This document provides information on the World Bank Enterprise Surveys (WBES) implemented in Czechia between April 2024 and March 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 countries 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.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 Czechia 2024 WBES uses the following stratification categories:

- **Industry:**
 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 41, 42, 43, 45, 46, 49, 50, 51, 52, 53, 55, 56, 58, 61, 62, 69, 70, 71, 72, 73, 74, 75, 79, 95)
- **Size:**
 1. Small (5 to 19 workers)
 2. Medium (20 to 99 workers)
 3. Large (100 or more workers)
- **Region:**

1. Prague (CZ01)	5. Northeast (CZ05)
2. Central Bohemia (CZ02)	6. Southeast (CZ06)
3. Southwest (CZ03)	7. Central Moravia (CZ07)
4. Northwest (CZ04)	8. Moravian-Silesian (CZ08)

For the generation of the estimates and the weights, the retail sector has been combined with the other services sector due to the low response rates of the retail sector.

The regional stratification in Czechia follows the NUTS2 regions. For the generation of the indicators, Prague (CZ01), Central Bohemia (CZ02), Southwest (CZ03), Northwest (CZ04), and Northeast (CZ05) are combined into one region called Bohemia, and the Southeast (CZ06), Central Moravia (CZ07), and Moravian-Silesian (CZ08) are combined into another region called Moravia.

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 commercial court of the regional commercial 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 Czechia 2024 WBES, the universe table, shown in Table 1 below, was obtained from Czech Statistical Office (March 1, 2024) registrar of economic subjects available publicly.

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 Czechia 2024 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 Czechia 2019 WBES. The Fresh Sampling Frame, i.e., list of establishments that are in the WBES universe and that have not participated in the Czechia 2019 WBES came from Czech Statistical Office (March 1, 2024) registrar of economic subjects available publicly.

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 Czechia 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 Czechia 2024 WBES were

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>

conducted between April 2024 and March 2025. The interviews were conducted in Czech. For monetary variables, the currency was Czech koruna.

Apart from the challenges with participation and call-backs that are standard for all surveys, the Czechia 2024 WBES faced challenges interviewing firms from the retail sector. Multiple attempts were made to obtain through various methods but these attempts were not successful.

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 Czechia 2024 WBES was implemented by Kapa Research with SC&C Market Research as the local partner. 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:

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

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 Czechia 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 Czechia 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
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.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).
- 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 Czechia 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).

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.

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.

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
- 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	Czech Statistical Office (March 1, 2024)
Source of Sampling Frame	Czech Statistical Office (March 1, 2024)
Levels of Universe Table and Sampling Frame	Universe Table: Firm-level Sampling Frame: Firm-level
Registration agency	Regional Commercial Court (obchodní rejstřík krajského obchodního soudu)
Stratification sectors	1. Manufacturing 2. Retail 3. Other Services
Stratification sizes	1. Small (5 to 19 workers) 2. Medium (20 to 99 workers) 3. Large (100 or more workers)
Stratification regions	1. Prague (CZ01) 2. Central Bohemia (CZ02) 3. Southwest (CZ03) 4. Northwest (CZ04) 5. Northeast (CZ05) 6. Southeast (CZ06) 7. Central Moravia (CZ07) 8. Moravian-Silesian (CZ08)
Contractor	Kapa Research with SC&C Market Research
Fieldwork dates	April 2024 – March 2025
Interview languages	Czech
Survey software	Survey Solutions
Currency for nominal variables	Czech koruna
Reference fiscal year	2023 (178 obs.) and 2024 (88 obs.)
VAT Applicable	Yes
Additional definitions	- Consumption Tax was referred to as Value Added Tax (DPH). - Occupancy Permit was referred to as the permission to use the premises. - The capital city (a3b) and main business city (a3c) is Prague.
Sample Size	Total: 268 Fresh: 212 Panel: 56
Survey response rates	Yield: 5.3% Response rate: 7.6% Frame quality: 69.4%
Item response rates	d2: 99.6% n2a: 99.6% 11: 100% all TFP vars.: 81.2%
Additional topics covered in the questionnaire	
Additional surveys available (if any)	

Tables

Table 1: Czechia 2024 WBES Universe

		Manufacturing	Retail	Other Services	Grand Total
Prague (CZ01)	Small (5-19)	1187	750	8222	15473
Prague (CZ01)	Medium (20-99)	610	276	3358	
Prague (CZ01)	Large (100-199)	204	131	735	
Central Bohemia (CZ02)	Small (5-19)	773	328	2436	5254
Central Bohemia (CZ02)	Medium (20-99)	461	81	797	
Central Bohemia (CZ02)	Large (100-199)	212	21	145	
Southwest (CZ03)	Small (5-19)	836	335	2396	5353
Southwest (CZ03)	Medium (20-99)	610	68	690	
Southwest (CZ03)	Large (100-199)	293	18	107	
Northwest (CZ04)	Small (5-19)	597	225	1775	3878
Northwest (CZ04)	Medium (20-99)	407	54	545	
Northwest (CZ04)	Large (100-199)	204	3	68	
Northeast (CZ05)	Small (5-19)	1216	311	2982	6719
Northeast (CZ05)	Medium (20-99)	763	72	887	
Northeast (CZ05)	Large (100-199)	357	15	116	
Southeast (CZ06)	Small (5-19)	1529	602	4141	9379
Southeast (CZ06)	Medium (20-99)	922	186	1396	
Southeast (CZ06)	Large (100-199)	366	29	208	
Central Moravia (CZ07)	Small (5-19)	1093	398	2399	5859
Central Moravia (CZ07)	Medium (20-99)	745	88	713	
Central Moravia (CZ07)	Large (100-199)	319	12	92	
Moravian-Silesian (CZ08)	Small (5-19)	785	396	2298	5102
Moravian-Silesian (CZ08)	Medium (20-99)	478	94	722	
Moravian-Silesian (CZ08)	Large (100-199)	218	12	99	
		15,185	4,505	37,327	57,017

Source: Czech Statistical Office (March 1, 2024) (Firm-level)

Table 2: Czechia 2024 WBES Sample Frame (Fresh and Panel Combined)

		Manufacturing	Retail	Other Services	Grand Total
Prague (CZ01)	Small (5-19)	1197	763	8249	15551
Prague (CZ01)	Medium (20-99)	615	278	3367	
Prague (CZ01)	Large (100 or more)	210	135	737	
Central Bohemia (CZ02)	Small (5-19)	784	335	2444	5305
Central Bohemia (CZ02)	Medium (20-99)	471	81	801	
Central Bohemia (CZ02)	Large (100 or more)	222	21	146	
Southwest (CZ03)	Small (5-19)	841	339	2408	5403
Southwest (CZ03)	Medium (20-99)	620	70	693	
Southwest (CZ03)	Large (100 or more)	307	18	107	
Northwest (CZ04)	Small (5-19)	604	228	1784	3920
Northwest (CZ04)	Medium (20-99)	418	57	546	
Northwest (CZ04)	Large (100 or more)	212	3	68	
Northeast (CZ05)	Small (5-19)	1231	317	3000	6810
Northeast (CZ05)	Medium (20-99)	792	73	890	
Northeast (CZ05)	Large (100 or more)	373	15	119	
Southeast (CZ06)	Small (5-19)	1546	605	4155	9460
Southeast (CZ06)	Medium (20-99)	938	187	1404	
Southeast (CZ06)	Large (100 or more)	386	29	210	
Central Moravia (CZ07)	Small (5-19)	1104	403	2408	5923
Central Moravia (CZ07)	Medium (20-99)	763	90	715	
Central Moravia (CZ07)	Large (100 or more)	334	13	93	
Moravian-Silesian (CZ08)	Small (5-19)	793	398	2308	5147
Moravian-Silesian (CZ08)	Medium (20-99)	487	97	724	
Moravian-Silesian (CZ08)	Large (100 or more)	227	12	101	
		15,475	4,567	37,477	57,519

Source: Czech Statistical Office (March 1, 2024) (Firm-level)

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

		Manufacturing	Retail	Other Services	Grand Total
Prague (CZ01)	Small (5-19)	4	4	23	60
Prague (CZ01)	Medium (20-99)	4	4	9	
Prague (CZ01)	Large (100-199)	4	4	4	
Central Bohemia (CZ02)	Small (5-19)	4	4	9	60
Central Bohemia (CZ02)	Medium (20-99)	4	9	7	
Central Bohemia (CZ02)	Large (100-199)	10	3	10	
Southwest (CZ03)	Small (5-19)	4	5	8	60
Southwest (CZ03)	Medium (20-99)	6	7	6	
Southwest (CZ03)	Large (100-199)	12	2	10	
Northwest (CZ04)	Small (5-19)	4	7	6	60
Northwest (CZ04)	Medium (20-99)	7	6	8	
Northwest (CZ04)	Large (100-199)	14	1	7	
Northeast (CZ05)	Small (5-19)	4	4	12	60
Northeast (CZ05)	Medium (20-99)	5	8	7	
Northeast (CZ05)	Large (100-199)	10	2	8	
Southeast (CZ06)	Small (5-19)	4	4	17	60
Southeast (CZ06)	Medium (20-99)	4	10	7	
Southeast (CZ06)	Large (100-199)	6	3	5	
Central Moravia (CZ07)	Small (5-19)	4	5	8	60
Central Moravia (CZ07)	Medium (20-99)	6	9	6	
Central Moravia (CZ07)	Large (100-199)	11	2	9	
Moravian-Silesian (CZ08)	Small (5-19)	4	5	7	60
Moravian-Silesian (CZ08)	Medium (20-99)	4	10	7	
Moravian-Silesian (CZ08)	Large (100-199)	11	2	10	
		150	120	210	480

Table 4: Response Outcomes

		Totals	Rates relative to total contacted
Overall	Contacts available in frame	57,519	
	Issued	15,737	
	Contacted	5,072	
Screening phase	Eligibles	2,287	45.1%
	Screener refusals	1,171	23.1%
	Assumed eligibles	3,519	69.4%
	Ineligible + out of target	576	11.4%
	Unobtainables	1,023	20.2%
Interview phase	Interview refusals	1,793	35.4%
(only if eligible)	Complete interviews	268	5.3%

Table 5: Survey Yield Rates

	Stratification	Yield	Survey response rate	Frame quality
Panel	Fresh	4.5%	6.5%	68.8%
	Panel	16.7%	21.6%	77.3%
Size	Small (5-19)	3.3%	5.3%	63.2%
	Medium (20-99)	6.8%	8.6%	79.7%
	Large (100+)	10.4%	13.3%	78.3%
Region	Prague (CZ01)	4.4%	6.8%	64.2%
	Central Bohemia (CZ02)	4.3%	6.4%	66.2%
	Southwest (CZ03)	5.0%	7.7%	65.6%
	Northwest (CZ04)	4.6%	6.8%	67.2%
	Northeast (CZ05)	5.7%	7.7%	73.8%
	Southeast (CZ06)	5.8%	7.6%	76.7%
	Central Moravia (CZ07)	7.2%	9.3%	77.5%
	Moravian-Silesian (CZ08)	5.1%	8.4%	60.5%
Sector	Manufacturing	7.4%	10.2%	71.7%
	Retail	3.0%	4.7%	65.5%
	Other Services	4.7%	6.8%	69.5%
Overall	Czechia 2024	5.3%	7.6%	69.4%

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
Prague (CZ01)	Small (5-19)	7	2	15	34
Prague (CZ01)	Medium (20-99)	2	0	3	
Prague (CZ01)	Large (100 or more)	5	0	0	
Central Bohemia (CZ02)	Small (5-19)	4	2	1	23
Central Bohemia (CZ02)	Medium (20-99)	5	3	3	
Central Bohemia (CZ02)	Large (100 or more)	4	0	1	
Southwest (CZ03)	Small (5-19)	1	2	3	28
Southwest (CZ03)	Medium (20-99)	6	1	2	
Southwest (CZ03)	Large (100 or more)	11	0	2	
Northwest (CZ04)	Small (5-19)	2	2	5	23
Northwest (CZ04)	Medium (20-99)	2	1	3	
Northwest (CZ04)	Large (100 or more)	6	1	1	
Northeast (CZ05)	Small (5-19)	2	4	9	44
Northeast (CZ05)	Medium (20-99)	5	1	6	
Northeast (CZ05)	Large (100 or more)	12	0	5	
Southeast (CZ06)	Small (5-19)	6	3	9	42
Southeast (CZ06)	Medium (20-99)	2	3	5	
Southeast (CZ06)	Large (100 or more)	12	0	2	
Central Moravia (CZ07)	Small (5-19)	5	2	6	46
Central Moravia (CZ07)	Medium (20-99)	10	1	4	
Central Moravia (CZ07)	Large (100 or more)	15	1	2	
Moravian-Silesian (CZ08)	Small (5-19)	3	4	5	28
Moravian-Silesian (CZ08)	Medium (20-99)	2	3	4	
Moravian-Silesian (CZ08)	Large (100 or more)	5	0	2	
		134	36	98	268

Table 7: Achieved Panel Sample

		Manufacturing	Retail	Other Services	Grand Total
Prague (CZ01)	Small (5-19)	1	0	2	5
Prague (CZ01)	Medium (20-99)	0	0	2	
Prague (CZ01)	Large (100 or more)	0	0	0	
Central Bohemia (CZ02)	Small (5-19)	2	0	0	8
Central Bohemia (CZ02)	Medium (20-99)	3	0	1	
Central Bohemia (CZ02)	Large (100 or more)	2	0	0	
Southwest (CZ03)	Small (5-19)	0	0	0	5
Southwest (CZ03)	Medium (20-99)	1	1	0	
Southwest (CZ03)	Large (100 or more)	3	0	0	
Northwest (CZ04)	Small (5-19)	1	0	0	3
Northwest (CZ04)	Medium (20-99)	1	0	0	
Northwest (CZ04)	Large (100 or more)	1	0	0	
Northeast (CZ05)	Small (5-19)	0	0	2	6
Northeast (CZ05)	Medium (20-99)	2	0	0	
Northeast (CZ05)	Large (100 or more)	2	0	0	
Southeast (CZ06)	Small (5-19)	3	0	1	11
Southeast (CZ06)	Medium (20-99)	0	0	2	
Southeast (CZ06)	Large (100 or more)	4	0	1	
Central Moravia (CZ07)	Small (5-19)	0	0	1	13
Central Moravia (CZ07)	Medium (20-99)	4	0	1	
Central Moravia (CZ07)	Large (100 or more)	7	0	0	
Moravian-Silesian (CZ08)	Small (5-19)	1	0	2	5
Moravian-Silesian (CZ08)	Medium (20-99)	0	1	0	
Moravian-Silesian (CZ08)	Large (100 or more)	1	0	0	
		39	2	15	56

Table 8: Weak Universe Estimates

		Manufacturing	Services	Grand Total
Prague (CZ01)	Small (5-19)	1093	7859	14051
Prague (CZ01)	Medium (20-99)	608	0	
Prague (CZ01)	Large (100 or more)	193	0	
Prague (CZ01)	Medium and Large (20+)	0	4298	
Central Bohemia (CZ02)	Small (5-19)	645	2192	4322
Central Bohemia (CZ02)	Medium (20-99)	416	753	
Central Bohemia (CZ02)	Large (100 or more)	181	135	
Southwest (CZ03)	Small (5-19)	718	2230	4547
Southwest (CZ03)	Medium (20-99)	567	670	
Southwest (CZ03)	Large (100 or more)	258	105	
Northwest (CZ04)	Small (5-19)	539	1716	3459
Northwest (CZ04)	Medium (20-99)	397	556	
Northwest (CZ04)	Large (100 or more)	189	62	
Northeast (CZ05)	Small (5-19)	1094	2818	5987
Northeast (CZ05)	Medium (20-99)	743	888	
Northeast (CZ05)	Large (100 or more)	330	115	
Southeast (CZ06)	Small (5-19)	1403	4139	8508
Southeast (CZ06)	Medium (20-99)	915	1494	
Southeast (CZ06)	Large (100 or more)	345	212	
Central Moravia (CZ07)	Small (5-19)	984	2394	5231
Central Moravia (CZ07)	Medium (20-99)	725	742	
Central Moravia (CZ07)	Large (100 or more)	295	91	
Moravian-Silesian (CZ08)	Small (5-19)	730	2383	4684
Moravian-Silesian (CZ08)	Medium (20-99)	481	781	
Moravian-Silesian (CZ08)	Large (100 or more)	208	101	
		14055	36733	50788

Table 9: Median Universe Estimates

		Manufacturing	Services	Grand Total
Prague (CZ01)	Small (5-19)	708	5190	9488
Prague (CZ01)	Medium (20-99)	457	0	
Prague (CZ01)	Large (100 or more)	149	0	
Prague (CZ01)	Medium and Large (20+)	0	2983	
Central Bohemia (CZ02)	Small (5-19)	478	1657	3436
Central Bohemia (CZ02)	Medium (20-99)	358	662	
Central Bohemia (CZ02)	Large (100 or more)	160	122	
Southwest (CZ03)	Small (5-19)	511	1620	3475
Southwest (CZ03)	Medium (20-99)	469	565	
Southwest (CZ03)	Large (100 or more)	219	91	
Northwest (CZ04)	Small (5-19)	374	1216	2577
Northwest (CZ04)	Medium (20-99)	321	458	
Northwest (CZ04)	Large (100 or more)	156	53	
Northeast (CZ05)	Small (5-19)	834	2191	4891
Northeast (CZ05)	Medium (20-99)	658	802	
Northeast (CZ05)	Large (100 or more)	300	107	
Southeast (CZ06)	Small (5-19)	1083	3261	7050
Southeast (CZ06)	Medium (20-99)	821	1367	
Southeast (CZ06)	Large (100 or more)	317	199	
Central Moravia (CZ07)	Small (5-19)	787	1954	4489
Central Moravia (CZ07)	Medium (20-99)	674	703	
Central Moravia (CZ07)	Large (100 or more)	281	89	
Moravian-Silesian (CZ08)	Small (5-19)	441	1467	3027
Moravian-Silesian (CZ08)	Medium (20-99)	337	559	
Moravian-Silesian (CZ08)	Large (100 or more)	150	74	
		11043	27390	38433

Table 10: Strict Universe Estimates

		Manufacturing	Services	Grand Total
Prague (CZ01)	Small (5-19)	271	2890	5856
Prague (CZ01)	Medium (20-99)	209	0	
Prague (CZ01)	Large (100 or more)	85	0	
Prague (CZ01)	Medium and Large (20+)	0	2401	
Central Bohemia (CZ02)	Small (5-19)	252	1273	2625
Central Bohemia (CZ02)	Medium (20-99)	226	608	
Central Bohemia (CZ02)	Large (100 or more)	127	140	
Southwest (CZ03)	Small (5-19)	250	1154	2417
Southwest (CZ03)	Medium (20-99)	274	481	
Southwest (CZ03)	Large (100 or more)	161	97	
Northwest (CZ04)	Small (5-19)	176	832	1728
Northwest (CZ04)	Medium (20-99)	180	375	
Northwest (CZ04)	Large (100 or more)	110	54	
Northeast (CZ05)	Small (5-19)	329	1259	2720
Northeast (CZ05)	Medium (20-99)	310	551	
Northeast (CZ05)	Large (100 or more)	177	92	
Southeast (CZ06)	Small (5-19)	442	1939	4126
Southeast (CZ06)	Medium (20-99)	401	972	
Southeast (CZ06)	Large (100 or more)	194	178	
Central Moravia (CZ07)	Small (5-19)	278	1007	2221
Central Moravia (CZ07)	Medium (20-99)	285	433	
Central Moravia (CZ07)	Large (100 or more)	149	69	
Moravian-Silesian (CZ08)	Small (5-19)	205	992	2015
Moravian-Silesian (CZ08)	Medium (20-99)	187	452	
Moravian-Silesian (CZ08)	Large (100 or more)	104	75	
		5384	18325	23709

Table 11: Item Response Rates

	Screener/Interview	d2	l1	n2a	all TFP variables
Panel	Fresh	99.5%	100.0%	99.5%	82.5%
	Panel	100.0%	100.0%	100.0%	78.0%
Size	Small (5-19)	100.0%	100.0%	99.0%	87.5%
	Medium (20-99)	98.8%	100.0%	100.0%	81.6%
	Large (100+)	100.0%	100.0%	100.0%	78.5%
Region	Bohemia	99.3%	100.0%	99.3%	85.3%
	Moravia	100.0%	100.0%	100.0%	76.2%
Sector	Manufacturing	100.0%	100.0%	100.0%	81.2%
	Services	99.2%	100.0%	99.2%	#N/A
Overall	Czechia 2024	99.6%	100.0%	99.6%	81.2%

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).