The Italy 2024 World Bank Enterprise Survey
Implementation Report

I. Introduction

This document provides information on the World Bank Enterprise Surveys (WBES) implemented in Italy between January 2024 and December 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 222,000 firms in 159 countries with a total of 366 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.

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[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 Italy 2024 WBES uses the following stratification categories:

- **Industry: 8 categories**:
    - Within manufacturing: Food, Garments, Machinery & Equipment, Other manufacturing
    - Within services: Construction, Retail, Hotels, and Other Services
- **Size: 4 categories**: Small (5 to 19 employees), Medium (20 to 99 employees), Large (100 to 190 employees), Extra Large (191 or more employees)
- **Region: 10 categories**: Lombardia; Veneto, Trentino e Friuli Venezia Giulia; Piemonte, Valle d'Aosta e Liguria; Emilia Romagna; Toscana; Marche, Umbria, Abruzzo; Lazio; Molise, Puglia; Campania, Basilicata, Calabria; Sardegna, Sicilia

Industry strata for the manufacturing sector were selected by their contribution to gross value added, to employment and to total number of establishments, using ISTAT National Accounts regional main aggregates and ASIA as of year 2020. In relation to the entire economy, the manufacturing sectors account for approximately 16%, while the services sector represents about 34%, as included in the WBES. Considering the ES universe only, the manufacturing sectors represent 14% and 23% of employment, and number of establishments, respectively.

Region strata of the Italy 2024 WBES were selected based on the 2024 administrative divisions NUTS2,[4] 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 Italy, a firm was classified as registered if recorded in the Registro delle Imprese. 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 Italy 2024 WBES, the universe table, shown in Table 1 below, was obtained from Istat, Registro statistico delle Unità Locali (ASIA-UL) as of year 2020.

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

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[4] See https://ec.europa.eu/eurostat/web/nuts.

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 Italy 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 Italy 2019 WBES. The Fresh Sampling Frame, i.e., list of establishments that are in the WBES universe and that have not participated in the Italy 2019 WBES was obtained from UnionCamere.

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.[5] 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*.[6] The original survey design for the Italy 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 Italy 2024 WBES were conducted between January 2024 and December 2024. The interviews were conducted in Italian. For monetary variables, the currency was Euro.

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[5] 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.
[6] The *Enterprise Surveys Manual and Guide* is available at:
https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Enterprise-Surveys-Manual-and-Guide.pdf

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 Italy 2024 WBES was implemented by Format Research Srl. 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 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 Italy 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 Italy 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.[7] 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).

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

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

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

III.8 Database Structure

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

The WBES datafiles contain two establishment identifiers, *idstd* and *id*. The former is a global unique identifier of each establishment, while the latter is unique identifier within each survey. The variable *idstd* can be used to match the WBES establishment one-to-one across databases. The variables *wweak, wmedian*, and *wstrong* corresponding to sampling weights based on, respectively, weak, median, and strong assumptions about eligibility (see Section III.6). The variable *strata* corresponds to the stratum of each observation.[8]

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 Italy 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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[8] Note that the sampling weights may vary within *strata* for panel establishments due to the procedure used for projecting the universe from the previous round of the survey.

IV. Useful Links

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

- *Sampling Note* is available at:
  https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Sampling_Note-Consolidated-2-16-22.pdf

- The *Enterprise Surveys Manual and Guide* is available at:
  https://www.enterprisesurveys.org/content/dam/enterprisesurveys/documents/methodology/Enterprise-Surveys-Manual-and-Guide.pdf

- The WBES global questionnaires are available at:
  https://www.enterprisesurveys.org/en/methodology

- The projects that are currently being implemented by the Enterprise Surveys team are available at: https://www.enterprisesurveys.org/en/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	Istat, Registro statistico delle Unità Locali (ASIA-UL) as of year 2020
Source of Sampling Frame	UnionCamere
Levels of Universe Table and Sampling Frame	Universe Table: Establishment-level Sampling Frame: Establishment-level
Registration agency	Registro delle imprese
Stratification sectors	Manufacturing of: Food, Garments, Machinery & Equipment, Other manufacturing; Construction, Retail, Hotels, Other Services
Stratification sizes	Small (5 to 19 employees), Medium (20 to 99 employees), Large (100-190), and Extra Large (191 or more employees)
Stratification regions	Lombardia; Veneto, Trentino e Friuli Venezia Giulia; Piemonte, Valle d'Aosta e Liguria; Emilia Romagna; Toscana; Marche, Umbria, Abruzzo; Lazio; Molise, Puglia; Campania, Basilicata, Calabria; Sardegna, Sicilia
Contractor	Format Research Srl
Fieldwork dates	January 2024 – December 2024
Interview languages	Italian
Survey software	Survey Solutions
Currency for nominal variables	Euro
Reference fiscal year	*2022 (192 obs.), 2023 (1020 obs.) and 2024 (4 obs.)*
VAT Applicable	YES
Additional definitions	"Consumption Tax" was referred to as IVA. "Occupancy Permit" was referred to as "Certificazione di Agibilità". For the capital city (a3b), Rome was entered; for the main business city (a3c), Milan was entered.
Sample Size	Total: 1,216 Fresh: 1,160 Panel: 56
Survey response rates	Yield: 4% Response rate: 9% Frame quality: 47%
Item response rates	d2: 99.9% n2a: 99.8% l1: 100% all TFP vars.: 59.8%
Additional topics covered in the questionnaire	NA
Additional surveys available (if any)	NA

Tables

Table 1: Italy 2024 WBES Universe

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Lombardia	Small (5-19)	1190	1053	2234	14318	7095	7840	850	27812	**80,906**
Lombardia	Medium (20-99)	369	224	1248	5052	1175	1440	160	5913	
Lombardia	Large (100-190)	46	16	151	494	46	93	10	453	
Lombardia	Extra Large (191+)	60	22	128	505	48	164	36	661	
Veneto, Trentino e Friuli Venezia Giulia	Small (5-19)	1087	940	1380	10622	5837	6439	2109	20127	**61,194**
Veneto, Trentino e Friuli Venezia Giulia	Medium (20-99)	387	206	856	4094	896	1068	358	3324	
Veneto, Trentino e Friuli Venezia Giulia	Large (100-190)	45	14	118	406	35	36	11	176	
Veneto, Trentino e Friuli Venezia Giulia	Extra Large (191+)	27	9	93	290	12	54	5	133	
Piemonte, Valle d'Aosta e Liguria	Small (5-19)	1025	170	840	5421	3607	4944	667	13494	**37,537**
Piemonte, Valle d'Aosta e Liguria	Medium (20-99)	212	51	463	1865	531	756	91	2302	
Piemonte, Valle d'Aosta e Liguria	Large (100-190)	26	4	74	241	31	37	4	188	
Piemonte, Valle d'Aosta e Liguria	Extra Large (191+)	20	9	39	194	13	35	3	180	
Emilia Romagna	Small (5-19)	1023	482	1278	5738	2903	3519	702	12255	**35,420**
Emilia Romagna	Medium (20-99)	287	98	801	2026	420	542	84	2187	
Emilia Romagna	Large (100-190)	37	10	103	195	12	32	5	119	
Emilia Romagna	Extra Large (191+)	44	15	116	189	21	27	5	145	
Toscana	Small (5-19)	698	1983	462	5752	2657	3017	838	9693	**29,793**
Toscana	Medium (20-99)	93	158	182	1635	291	403	110	1306	
Toscana	Large (100-190)	13	8	17	131	6	22	6	73	
Toscana	Extra Large (191+)	4	6	11	110	5	23	5	75	
Marche, Umbria, Abruzzo	Small (5-19)	769	665	396	4566	2621	3485	564	8395	**25,895**
Marche, Umbria, Abruzzo	Medium (20-99)	148	180	167	1528	355	445	42	1050	
Marche, Umbria, Abruzzo	Large (100-190)	9	8	21	166	8	15	1	50	
Marche, Umbria, Abruzzo	Extra Large (191+)	14	16	19	116	11	20	2	43	
Lazio	Small (5-19)	699	149	140	2104	3626	5510	778	13024	**31,653**
Lazio	Medium (20-99)	90	20	47	559	553	858	144	2481	
Lazio	Large (100-190)	8	2	9	61	38	28	7	252	

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Lazio	Extra Large (191+)	6	0	3	73	44	40	13	287	
Molise, Puglia	Small (5-19)	847	534	179	2118	2591	3632	404	7529	**20,738**
Molise, Puglia	Medium (20-99)	165	140	62	575	318	331	74	944	
Molise, Puglia	Large (100-190)	14	3	5	49	9	7	2	66	
Molise, Puglia	Extra Large (191+)	8	1	5	37	11	12	6	60	
Campania, Basilicata, Calabria	Small (5-19)	1292	733	224	3761	4359	6253	817	13314	**36,385**
Campania, Basilicata, Calabria	Medium (20-99)	276	129	74	1026	623	756	128	2017	
Campania, Basilicata, Calabria	Large (100-190)	28	4	7	104	33	16	3	165	
Campania, Basilicata, Calabria	Extra Large (191+)	12	4	3	51	21	30	8	114	
Sardegna, Sicilia	Small (5-19)	1137	61	105	2004	3100	5513	621	9748	**25,479**
Sardegna, Sicilia	Medium (20-99)	158	18	25	388	357	632	122	1177	
Sardegna, Sicilia	Large (100-190)	4	1	1	41	26	16	6	79	
Sardegna, Sicilia	Extra Large (191+)	5	0	2	25	11	23	4	69	
		12,382	**8,146**	**12,088**	**78,630**	**44,356**	**58,113**	**9,805**	**161,480**	**385,000**

Source: Istat, Registro statistico delle Unità Locali (ASIA-UL) as of year 2020 (Establishment-level)

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

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Lombardia	Small (5-19)	175	171	207	706	302	369	166	2020	**8012**
Lombardia	Medium (20-99)	153	100	180	432	128	184	98	311	
Lombardia	Large (100-190)	48	16	146	250	46	80	10	106	
Lombardia	Extra Large (191+)	61	21	137	505	48	138	36	662	
Veneto, Trentino e Friuli Venezia Giulia	Small (5-19)	172	170	133	591	265	326	201	1850	**6360**
Veneto, Trentino e Friuli Venezia Giulia	Medium (20-99)	152	99	169	409	120	171	103	239	
Veneto, Trentino e Friuli Venezia Giulia	Large (100-190)	49	14	121	238	35	37	11	147	
Veneto, Trentino e Friuli Venezia Giulia	Extra Large (191+)	29	9	96	197	12	56	5	134	
Piemonte, Valle d'Aosta e Liguria	Small (5-19)	170	77	168	910	480	288	255	1194	**5582**
Piemonte, Valle d'Aosta e Liguria	Medium (20-99)	147	34	159	289	109	115	91	209	
Piemonte, Valle d'Aosta e Liguria	Large (100-190)	24	4	58	141	30	32	4	99	
Piemonte, Valle d'Aosta e Liguria	Extra Large (191+)	22	6	40	200	13	31	3	180	
Emilia Romagna	Small (5-19)	171	155	368	1015	272	244	163	968	**5656**
Emilia Romagna	Medium (20-99)	150	75	165	342	105	157	84	206	
Emilia Romagna	Large (100-190)	39	10	104	149	12	32	5	97	
Emilia Romagna	Extra Large (191+)	46	15	117	191	21	28	5	145	
Toscana	Small (5-19)	113	611	153	1152	265	227	224	515	**4817**
Toscana	Medium (20-99)	86	73	119	326	102	105	96	179	
Toscana	Large (100-190)	5	8	13	132	6	18	6	42	
Toscana	Extra Large (191+)	3	7	12	111	5	23	5	75	
Marche, Umbria, Abruzzo	Small (5-19)	208	365	185	886	356	193	343	381	**4583**
Marche, Umbria, Abruzzo	Medium (20-99)	146	120	149	280	104	156	42	172	
Marche, Umbria, Abruzzo	Large (100-190)	8	6	15	154	8	15	1	43	
Marche, Umbria, Abruzzo	Extra Large (191+)	14	12	19	126	11	20	2	43	
Lazio	Small (5-19)	161	98	61	297	494	501	352	1085	**4746**
Lazio	Medium (20-99)	70	10	39	253	111	166	126	212	
Lazio	Large (100-190)	8	1	3	46	38	31	7	98	
Lazio	Extra Large (191+)	9	0	5	74	44	44	13	289	
Molise, Puglia	Small (5-19)	352	315	147	343	385	247	339	356	**3666**
Molise, Puglia	Medium (20-99)	106	73	44	292	102	103	74	120	
Molise, Puglia	Large (100-190)	9	3	4	33	9	7	2	66	

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Molise, Puglia	Extra Large (191+)	8	1	4	33	11	12	6	60	
Campania, Basilicata, Calabria	Small (5-19)	182	160	114	493	686	618	257	1047	**5339**
Campania, Basilicata, Calabria	Medium (20-99)	159	67	57	314	111	168	97	200	
Campania, Basilicata, Calabria	Large (100-190)	31	4	9	103	33	16	3	145	
Campania, Basilicata, Calabria	Extra Large (191+)	20	4	3	58	21	35	8	116	
Sardegna, Sicilia	Small (5-19)	374	48	113	357	537	506	345	616	**4174**
Sardegna, Sicilia	Medium (20-99)	123	12	13	235	107	173	122	187	
Sardegna, Sicilia	Large (100-190)	4	1	1	34	26	17	6	79	
Sardegna, Sicilia	Extra Large (191+)	5	0	1	25	11	23	4	69	
		3,812	**2,975**	**3,651**	**12,722**	**5,581**	**5,712**	**3,720**	**14,762**	**52,935**

Source: UnionCamere (Establishment-level)

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

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Lombardia	Small (5-19)	3	3	4	11	6	4	3	13	**120**
Lombardia	Medium (20-99)	4	2	4	4	3	4	2	3	
Lombardia	Large (100-190)	3	4	3	6	2	4	3	2	
Lombardia	Extra Large (191+)	3	2	4	2	2	2	2	3	
Veneto, Trentino e Friuli Venezia Giulia	Small (5-19)	3	4	2	7	6	3	3	13	**120**
Veneto, Trentino e Friuli Venezia Giulia	Medium (20-99)	3	2	4	4	3	3	2	4	
Veneto, Trentino e Friuli Venezia Giulia	Large (100-190)	5	4	4	7	3	3	3	3	
Veneto, Trentino e Friuli Venezia Giulia	Extra Large (191+)	3	2	4	4	2	3	1	3	
Piemonte, Valle d'Aosta e Liguria	Small (5-19)	3	2	5	6	4	7	4	13	**120**
Piemonte, Valle d'Aosta e Liguria	Medium (20-99)	3	2	5	4	3	2	3	4	
Piemonte, Valle d'Aosta e Liguria	Large (100-190)	6	1	3	6	8	3	1	3	
Piemonte, Valle d'Aosta e Liguria	Extra Large (191+)	3	1	3	4	2	3	1	2	
Emilia Romagna	Small (5-19)	3	4	5	8	4	5	5	11	**120**
Emilia Romagna	Medium (20-99)	3	4	3	5	2	3	4	5	
Emilia Romagna	Large (100-190)	4	3	4	4	3	3	1	4	
Emilia Romagna	Extra Large (191+)	3	3	3	3	2	3	1	2	
Toscana	Small (5-19)	2	11	2	6	4	3	7	6	**120**
Toscana	Medium (20-99)	4	6	4	8	2	2	6	3	
Toscana	Large (100-190)	2	2	4	6	2	5	2	5	
Toscana	Extra Large (191+)	2	2	3	3	1	2	1	2	
Marche, Umbria, Abruzzo	Small (5-19)	2	7	3	7	5	2	7	4	**120**
Marche, Umbria, Abruzzo	Medium (20-99)	3	6	5	4	3	4	6	3	
Marche, Umbria, Abruzzo	Large (100-190)	3	2	5	6	2	4	0	5	
Marche, Umbria, Abruzzo	Extra Large (191+)	2	3	4	7	1	2	1	2	
Lazio	Small (5-19)	3	3	2	5	5	13	5	12	**120**
Lazio	Medium (20-99)	3	2	4	5	3	3	3	3	
Lazio	Large (100-190)	2	0	1	3	10	4	3	3	
Lazio	Extra Large (191+)	3	0	3	3	2	4	2	3	
Molise, Puglia	Small (5-19)	2	10	2	3	9	4	11	3	**120**

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Molise, Puglia	Medium (20-99)	3	10	3	5	2	2	10	2	
Molise, Puglia	Large (100-190)	2	1	1	9	2	2	1	10	
Molise, Puglia	Extra Large (191+)	2	0	1	3	1	2	0	2	
Campania, Basilicata, Calabria	Small (5-19)	4	3	4	6	2	13	2	12	**120**
Campania, Basilicata, Calabria	Medium (20-99)	4	2	4	4	2	4	2	3	
Campania, Basilicata, Calabria	Large (100-190)	4	1	5	5	8	2	1	2	
Campania, Basilicata, Calabria	Extra Large (191+)	4	1	2	4	2	4	1	3	
Sardegna, Sicilia	Small (5-19)	7	2	4	9	3	17	4	10	**120**
Sardegna, Sicilia	Medium (20-99)	4	3	3	5	5	6	3	8	
Sardegna, Sicilia	Large (100-190)	1	0	0	2	7	3	2	2	
Sardegna, Sicilia	Extra Large (191+)	1	0	0	2	2	2	1	2	
		124	**120**	**129**	**205**	**140**	**164**	**120**	**198**	**1,200**

Table 4: Response Outcomes

		Totals	Rates relative to total contacted
Overall	Contacts available in frame	52,935	
	Issued	31,090	
	Contacted	28,218	
Screening phase	Eligibles	2,305	8.2%
	Screener refusals	10,744	38.1%
	Assumed eligibles	13,367	47.4%
	Ineligible + out of target	1,978	7.0%
	Unobtainables	12,753	45.2%
Interview phase	Interview refusals	1,052	3.7%
(only if eligible)	Complete interviews	1,216	4.3%

Table 5: Survey Yield Rates

	Stratification	Yield	Survey response rate	Frame quality
Panel	Fresh	4.2%	9.1%	46.6%
	Panel	7.4%	9.7%	76.3%
Size	Small (5-19)	4.0%	9.0%	44.4%
	Medium (20-99)	5.3%	10.0%	52.9%
	Large (100-190)	4.5%	8.9%	50.9%
	Extra Large (191+)	3.4%	7.5%	46.1%
Region	Lombardia	3.0%	6.2%	48.1%
	Veneto, Trentino e Friuli Venezia Giulia	4.8%	9.6%	49.9%
	Piemonte, Valle d'Aosta e Liguria	5.7%	11.2%	50.9%
	Emilia Romagna	4.9%	9.5%	51.4%
	Toscana	4.8%	10.2%	46.9%
	Marche, Umbria, Abruzzo	5.7%	10.6%	53.8%
	Lazio	3.1%	6.7%	46.7%
	Molise, Puglia	4.0%	8.3%	48.7%
	Campania, Basilicata, Calabria	4.5%	11.1%	40.0%
	Sardegna, Sicilia	4.4%	11.2%	39.6%
Sector	Food	4.2%	8.3%	51.2%
	Garments	4.7%	10.2%	46.2%
	Machinery & Equipment	6.8%	11.3%	59.9%
	Other Manufacturing	5.7%	10.3%	55.0%
	Construction	4.4%	9.8%	44.5%
	Retail	2.6%	6.2%	41.3%
	Hotels	3.9%	7.1%	54.3%
	Other Services	4.0%	9.8%	40.8%
Overall	Italy 2024	4.3%	9.1%	47.4%

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

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

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Lombardia	Small (5-19)	4	2	3	9	4	2	3	35	**121**
Lombardia	Medium (20-99)	3	4	5	3	3	5	5	4	
Lombardia	Large (100-190)	2	0	4	6	2	1	0	0	
Lombardia	Extra Large (191+)	1	2	3	5	0	0	0	1	
Veneto, Trentino e Friuli Venezia Giulia	Small (5-19)	4	2	4	6	7	4	3	30	**130**
Veneto, Trentino e Friuli Venezia Giulia	Medium (20-99)	2	2	5	7	7	3	3	4	
Veneto, Trentino e Friuli Venezia Giulia	Large (100-190)	2	0	7	4	3	0	1	4	
Veneto, Trentino e Friuli Venezia Giulia	Extra Large (191+)	2	0	7	4	0	1	1	1	
Piemonte, Valle d'Aosta e Liguria	Small (5-19)	6	3	5	5	5	9	6	16	**122**
Piemonte, Valle d'Aosta e Liguria	Medium (20-99)	4	1	5	4	4	3	6	4	
Piemonte, Valle d'Aosta e Liguria	Large (100-190)	2	0	5	7	3	2	0	3	
Piemonte, Valle d'Aosta e Liguria	Extra Large (191+)	1	0	3	5	1	0	0	4	
Emilia Romagna	Small (5-19)	3	8	5	5	3	3	4	8	**121**
Emilia Romagna	Medium (20-99)	6	4	4	11	2	5	1	5	
Emilia Romagna	Large (100-190)	3	1	4	4	1	4	0	4	
Emilia Romagna	Extra Large (191+)	1	0	6	6	0	0	1	9	
Toscana	Small (5-19)	9	21	5	6	5	5	11	10	**120**
Toscana	Medium (20-99)	5	6	5	2	6	4	2	3	
Toscana	Large (100-190)	0	0	0	6	0	1	0	0	
Toscana	Extra Large (191+)	0	0	0	5	0	0	0	3	
Marche, Umbria, Abruzzo	Small (5-19)	4	14	5	5	6	3	6	6	**121**
Marche, Umbria, Abruzzo	Medium (20-99)	5	10	5	11	4	5	3	6	
Marche, Umbria, Abruzzo	Large (100-190)	1	0	2	5	0	1	0	4	
Marche, Umbria, Abruzzo	Extra Large (191+)	1	2	0	6	0	0	0	1	
Lazio	Small (5-19)	8	5	3	5	13	6	7	26	**120**
Lazio	Medium (20-99)	1	0	1	9	4	2	4	7	
Lazio	Large (100-190)	0	0	1	2	3	1	2	2	
Lazio	Extra Large (191+)	0	0	0	1	1	1	1	4	
Molise, Puglia	Small (5-19)	9	14	4	8	13	4	13	8	**121**
Molise, Puglia	Medium (20-99)	4	4	5	5	4	1	5	4	
Molise, Puglia	Large (100-190)	1	0	1	3	2	0	0	4	
Molise, Puglia	Extra Large (191+)	1	0	0	2	0	0	0	2	
Campania, Basilicata, Calabria	Small (5-19)	4	6	2	7	14	6	4	13	**120**
Campania, Basilicata, Calabria	Medium (20-99)	8	1	3	4	6	4	2	6	

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Campania, Basilicata, Calabria	Large (100-190)	3	0	1	4	2	1	0	10	
Campania, Basilicata, Calabria	Extra Large (191+)	0	0	0	5	0	1	0	3	
Sardegna, Sicilia	Small (5-19)	5	2	7	3	7	10	12	7	120
Sardegna, Sicilia	Medium (20-99)	9	0	3	11	9	8	4	7	
Sardegna, Sicilia	Large (100-190)	0	0	0	5	1	0	0	2	
Sardegna, Sicilia	Extra Large (191+)	1	0	0	0	1	3	0	3	
		125	114	128	211	146	109	110	273	1,216

Table 7: Achieved Panel Sample

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Lombardia	Small (5-19)	0	0	0	2	0	0	0	0	4
Lombardia	Medium (20-99)	0	0	0	1	0	0	0	0	
Lombardia	Large (100-190)	0	0	0	0	0	1	0	0	
Veneto, Trentino e Friuli Venezia Giulia	Small (5-19)	1	0	0	1	1	0	0	1	10
Veneto, Trentino e Friuli Venezia Giulia	Medium (20-99)	0	0	1	3	0	1	0	0	
Veneto, Trentino e Friuli Venezia Giulia	Extra Large (191+)	0	0	1	0	0	0	0	0	
Piemonte, Valle d'Aosta e Liguria	Small (5-19)	0	0	0	0	0	3	0	3	9
Piemonte, Valle d'Aosta e Liguria	Large (100-190)	0	0	0	1	0	1	0	0	
Piemonte, Valle d'Aosta e Liguria	Extra Large (191+)	0	0	1	0	0	0	0	0	
Emilia Romagna	Small (5-19)	0	0	0	0	1	0	0	2	6
Emilia Romagna	Medium (20-99)	0	0	1	0	0	1	0	1	
Toscana	Small (5-19)	0	0	0	1	0	0	0	0	3
Toscana	Medium (20-99)	0	0	1	0	0	0	0	0	
Toscana	Large (100-190)	0	0	0	1	0	0	0	0	
Marche, Umbria, Abruzzo	Small (5-19)	0	0	1	1	0	0	0	0	7
Marche, Umbria, Abruzzo	Medium (20-99)	0	0	1	1	0	0	0	1	
Marche, Umbria, Abruzzo	Extra Large (191+)	0	0	0	2	0	0	0	0	
Molise, Puglia	Medium (20-99)	0	0	0	1	0	0	0	0	1
Campania, Basilicata, Calabria	Small (5-19)	0	0	0	2	0	0	0	0	6
Campania, Basilicata, Calabria	Medium (20-99)	1	0	1	0	0	0	0	0	
Campania, Basilicata, Calabria	Extra Large (191+)	0	0	0	1	0	1	0	0	
Sardegna, Sicilia	Small (5-19)	0	0	0	0	0	1	0	1	10
Sardegna, Sicilia	Medium (20-99)	3	0	1	2	0	0	0	2	
		5	-	9	20	2	9	-	11	56

Table 8: Weak Universe Estimates

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotel	Other Services	Grand Total
Lombardia	Small (5-19)	1109	1029	2225	13707	6911	7355	823	25460	**75548**
Lombardia	Medium (20-99)	336	214	1213	4721	1117	1319	0	5283	
Lombardia	Large (100-190)	41	0	144	452	0	0	0	0	
Lombardia	Extra Large (191+)	51	0	116	440	0	0	0	0	
Lombardia	Large and Extra Large (100+)	0	34	0	0	83	236	0	929	
Lombardia	Medium, Large and Extra Large (20+)	0	0	0	0	0	0	198	0	
Veneto, Trentino e Friuli Venezia Giulia	Small (5-19)	1011	917	1372	10148	5674	6028	2038	18387	**57204**
Veneto, Trentino e Friuli Venezia Giulia	Medium (20-99)	351	0	830	3818	850	976	338	2964	
Veneto, Trentino e Friuli Venezia Giulia	Large (100-190)	40	0	112	371	0	0	10	154	
Veneto, Trentino e Friuli Venezia Giulia	Extra Large (191+)	23	0	84	252	0	0	4	111	
Veneto, Trentino e Friuli Venezia Giulia	Large and Extra Large (100+)	0	0	0	0	42	77	0	0	
Veneto, Trentino e Friuli Venezia Giulia	Medium, Large and Extra Large (20+)	0	222	0	0	0	0	0	0	
Piemonte, Valle d'Aosta e Liguria	Small (5-19)	930	162	814	5049	3419	4513	628	12019	**34100**
Piemonte, Valle d'Aosta e Liguria	Medium (20-99)	188	0	438	1696	491	674	0	2001	
Piemonte, Valle d'Aosta e Liguria	Large (100-190)	23	0	69	215	28	0	0	160	
Piemonte, Valle d'Aosta e Liguria	Extra Large (191+)	17	0	34	165	11	0	0	146	
Piemonte, Valle d'Aosta e Liguria	Large and Extra Large (100+)	0	0	0	0	0	60	0	0	
Piemonte, Valle d'Aosta e Liguria	Medium, Large and Extra Large (20+)	0	60	0	0	0	0	92	0	
Emilia Romagna	Small (5-19)	880	435	1175	5071	2610	3047	627	10356	**30578**
Emilia Romagna	Medium (20-99)	241	86	719	1747	369	458	73	1804	
Emilia Romagna	Large (100-190)	30	0	91	165	0	0	0	96	
Emilia Romagna	Extra Large (191+)	34	0	97	152	0	0	0	112	
Emilia Romagna	Large and Extra Large (100+)	0	21	0	0	27	47	8	0	
Toscana	Small (5-19)	652	1942	461	5518	2594	2837	813	8892	**28046**
Toscana	Medium (20-99)	0	0	0	1531	0	370	0	1169	
Toscana	Large (100-190)	0	0	0	120	0	0	0	0	
Toscana	Extra Large (191+)	0	0	0	96	0	0	0	0	
Toscana	Large and Extra Large (100+)	0	0	0	0	0	39	0	124	
Toscana	Medium, Large and Extra Large (20+)	102	167	208	0	293	0	117	0	
Marche, Umbria, Abruzzo	Small (5-19)	717	650	394	4371	2553	3270	546	7685	**24275**
Marche, Umbria, Abruzzo	Medium (20-99)	135	172	162	1428	0	407	0	938	
Marche, Umbria, Abruzzo	Large (100-190)	8	0	0	152	0	0	0	44	

		Food	**Garments**	**Machinery and Equipment**	**Other Manufacturing**	**Construction**	**Retail**	**Hotel**	**Other Services**	**Grand Total**
Marche, Umbria, Abruzzo	Extra Large (191+)	12	0	0	101	0	0	0	36	
Marche, Umbria, Abruzzo	Large and Extra Large (100+)	0	21	36	0	0	30	0	0	
Marche, Umbria, Abruzzo	Medium, Large and Extra Large (20+)	0	0	0	0	362	0	43	0	
Lazio	Small (5-19)	643	0	138	1987	3485	5100	743	11764	**29016**
Lazio	Medium (20-99)	0	0	45	515	519	775	134	2187	
Lazio	Large (100-190)	0	0	0	55	35	25	6	218	
Lazio	Extra Large (191+)	0	0	0	63	39	34	11	236	
Lazio	Large and Extra Large (100+)	0	0	11	0	0	0	0	0	
Lazio	Medium, Large and Extra Large (20+)	95	0	0	0	0	0	0	0	
Lazio	Small, Medium, Large and Extra Large (5+)	0	152	0	0	0	0	0	0	
Molise, Puglia	Small (5-19)	785	519	177	2015	2508	3386	389	6849	**19280**
Molise, Puglia	Medium (20-99)	149	0	60	534	300	0	0	838	
Molise, Puglia	Large (100-190)	12	0	0	45	0	0	0	57	
Molise, Puglia	Extra Large (191+)	7	0	0	32	0	0	0	50	
Molise, Puglia	Large and Extra Large (100+)	0	0	9	0	18	0	0	0	
Molise, Puglia	Medium, Large and Extra Large (20+)	0	139	0	0	0	324	78	0	
Campania, Basilicata, Calabria	Small (5-19)	1196	712	222	3576	4217	5826	786	12105	**33751**
Campania, Basilicata, Calabria	Medium (20-99)	249	0	71	952	588	688	0	1790	
Campania, Basilicata, Calabria	Large (100-190)	0	0	0	95	0	14	0	143	
Campania, Basilicata, Calabria	Extra Large (191+)	0	0	0	44	0	28	0	94	
Campania, Basilicata, Calabria	Large and Extra Large (100+)	34	0	9	0	48	0	0	0	
Campania, Basilicata, Calabria	Medium, Large and Extra Large (20+)	0	132	0	0	0	0	133	0	
Sardegna, Sicilia	Small (5-19)	1007	0	99	1822	2868	4912	571	8475	**22567**
Sardegna, Sicilia	Medium (20-99)	137	0	0	344	322	550	0	999	
Sardegna, Sicilia	Large (100-190)	0	0	0	0	23	0	0	66	
Sardegna, Sicilia	Extra Large (191+)	0	0	0	0	9	0	0	55	
Sardegna, Sicilia	Large and Extra Large (100+)	7	0	0	55	0	32	0	0	
Sardegna, Sicilia	Medium, Large and Extra Large (20+)	0	0	26	0	0	0	121	0	
Sardegna, Sicilia	Small, Medium, Large and Extra Large (5+)	0	69	0	0	0	0	0	0	
		11253	**7855**	**11663**	**73619**	**42413**	**53435**	**9332**	**144795**	**354365**

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotel	Other Services	Grand Total
Lombardia	Small (5-19)	567	462	1242	7278	2991	3005	439	10625	**36029**
Lombardia	Medium (20-99)	203	113	801	2963	572	637	0	2606	
Lombardia	Large (100-190)	25	0	96	287	0	0	0	0	
Lombardia	Extra Large (191+)	30	0	74	267	0	0	0	0	
Lombardia	Large and Extra Large (100+)	0	17	0	0	41	112	0	437	
Lombardia	Medium, Large and Extra Large (20+)	0	0	0	0	0	0	141	0	
Veneto, Trentino e Friuli Venezia Giulia	Small (5-19)	534	426	791	5567	2538	2545	1123	7929	**28292**
Veneto, Trentino e Friuli Venezia Giulia	Medium (20-99)	219	0	566	2476	449	487	220	1511	
Veneto, Trentino e Friuli Venezia Giulia	Large (100-190)	25	0	77	243	0	0	7	79	
Veneto, Trentino e Friuli Venezia Giulia	Extra Large (191+)	14	0	56	158	0	0	3	55	
Veneto, Trentino e Friuli Venezia Giulia	Large and Extra Large (100+)	0	0	0	0	21	37	0	0	
Veneto, Trentino e Friuli Venezia Giulia	Medium, Large and Extra Large (20+)	0	137	0	0	0	0	0	0	
Piemonte, Valle d'Aosta e Liguria	Small (5-19)	514	79	492	2900	1601	1994	363	5426	**17323**
Piemonte, Valle d'Aosta e Liguria	Medium (20-99)	123	0	313	1151	272	352	0	1068	
Piemonte, Valle d'Aosta e Liguria	Large (100-190)	15	0	49	147	16	0	0	86	
Piemonte, Valle d'Aosta e Liguria	Extra Large (191+)	10	0	24	108	6	0	0	75	
Piemonte, Valle d'Aosta e Liguria	Large and Extra Large (100+)	0	0	0	0	0	30	0	0	
Piemonte, Valle d'Aosta e Liguria	Medium, Large and Extra Large (20+)	0	39	0	0	0	0	70	0	
Emilia Romagna	Small (5-19)	520	226	758	3111	1305	1438	387	4994	**16918**
Emilia Romagna	Medium (20-99)	168	53	548	1267	218	256	53	1028	
Emilia Romagna	Large (100-190)	21	0	70	121	0	0	0	55	
Emilia Romagna	Extra Large (191+)	23	0	72	107	0	0	0	62	
Emilia Romagna	Large and Extra Large (100+)	0	12	0	0	15	25	6	0	
Toscana	Small (5-19)	327	857	253	2879	1103	1139	426	3646	**13089**
Toscana	Medium (20-99)	0	0	0	944	0	175	0	567	
Toscana	Large (100-190)	0	0	0	75	0	0	0	0	
Toscana	Extra Large (191+)	0	0	0	57	0	0	0	0	
Toscana	Large and Extra Large (100+)	0	0	0	0	0	17	0	57	
Toscana	Medium, Large and Extra Large (20+)	68	98	152	0	166	0	81	0	
Marche, Umbria, Abruzzo	Small (5-19)	410	327	247	2600	1238	1496	326	3592	**12847**
Marche, Umbria, Abruzzo	Medium (20-99)	91	102	120	1004	0	220	0	518	
Marche, Umbria, Abruzzo	Large (100-190)	5	0	0	108	0	0	0	24	
Marche, Umbria, Abruzzo	Extra Large (191+)	8	0	0	69	0	0	0	19	
Marche, Umbria, Abruzzo	Large and Extra Large (100+)	0	12	26	0	0	15	0	0	
Marche, Umbria, Abruzzo	Medium, Large and Extra Large (20+)	0	0	0	0	233	0	34	0	
Lazio	Small (5-19)	326	0	76	1047	1497	2068	393	4873	**12940**

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotel	Other Services	Grand Total
Lazio	Medium (20-99)	0	0	30	321	263	372	84	1071	
Lazio	Large (100-190)	0	0	0	35	18	12	4	108	
Lazio	Extra Large (191+)	0	0	0	38	19	16	7	112	
Lazio	Large and Extra Large (100+)	0	0	7	0	0	0	0	0	
Lazio	Medium, Large and Extra Large (20+)	64	0	0	0	0	0	0	0	
Lazio	Small, Medium, Large and Extra Large (5+)	0	80	0	0	0	0	0	0	
Molise, Puglia	Small (5-19)	415	241	102	1108	1124	1432	215	2959	**9121**
Molise, Puglia	Medium (20-99)	93	0	41	347	159	0	0	428	
Molise, Puglia	Large (100-190)	8	0	0	29	0	0	0	30	
Molise, Puglia	Extra Large (191+)	4	0	0	20	0	0	0	25	
Molise, Puglia	Large and Extra Large (100+)	0	0	6	0	9	0	0	0	
Molise, Puglia	Medium, Large and Extra Large (20+)	0	86	0	0	0	182	58	0	
Campania, Basilicata, Calabria	Small (5-19)	505	264	102	1569	1509	1967	346	4175	**12719**
Campania, Basilicata, Calabria	Medium (20-99)	125	0	39	494	249	274	0	730	
Campania, Basilicata, Calabria	Large (100-190)	0	0	0	50	0	6	0	59	
Campania, Basilicata, Calabria	Extra Large (191+)	0	0	0	22	0	13	0	37	
Campania, Basilicata, Calabria	Large and Extra Large (100+)	16	0	5	0	19	0	0	0	
Campania, Basilicata, Calabria	Medium, Large and Extra Large (20+)	0	65	0	0	0	0	78	0	
Sardegna, Sicilia	Small (5-19)	438	0	47	823	1056	1707	259	3009	**8606**
Sardegna, Sicilia	Medium (20-99)	70	0	0	184	140	226	0	419	
Sardegna, Sicilia	Large (100-190)	0	0	0	0	10	0	0	28	
Sardegna, Sicilia	Extra Large (191+)	0	0	0	0	4	0	0	22	
Sardegna, Sicilia	Large and Extra Large (100+)	4	0	0	28	0	12	0	0	
Sardegna, Sicilia	Medium, Large and Extra Large (20+)	0	0	17	0	0	0	73	0	
Sardegna, Sicilia	Small, Medium, Large and Extra Large (5+)	0	31	0	0	0	0	0	0	
		5989	**3728**	**7297**	**42001**	**18861**	**22268**	**5196**	**62545**	**167885**

Table 10: Strict Universe Estimates

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Lombardia	Small (5-19)	70	76	205	1081	473	326	52	1427	**5193**
Lombardia	Medium (20-99)	28	21	150	501	103	79	0	398	
Lombardia	Large (100-190)	3	0	15	41	0	0	0	0	
Lombardia	Extra Large (191+)	3	0	10	31	0	0	0	0	
Lombardia	Large and Extra Large (100+)	0	3	0	0	6	19	0	56	
Lombardia	Medium, Large and Extra Large (20+)	0	0	0	0	0	0	17	0	
Veneto, Trentino e Friuli Venezia Giulia	Small (5-19)	89	95	178	1127	546	376	183	1450	**5517**
Veneto, Trentino e Friuli Venezia Giulia	Medium (20-99)	42	0	145	570	110	82	41	314	
Veneto, Trentino e Friuli Venezia Giulia	Large (100-190)	4	0	17	47	0	0	1	14	
Veneto, Trentino e Friuli Venezia Giulia	Extra Large (191+)	2	0	10	25	0	0	1	8	
Veneto, Trentino e Friuli Venezia Giulia	Large and Extra Large (100+)	0	0	0	0	4	5	0	0	
Veneto, Trentino e Friuli Venezia Giulia	Medium, Large and Extra Large (20+)	0	30	0	0	0	0	0	0	
Piemonte, Valle d'Aosta e Liguria	Small (5-19)	77	16	99	527	309	264	53	891	**2987**
Piemonte, Valle d'Aosta e Liguria	Medium (20-99)	21	0	72	238	60	53	0	200	
Piemonte, Valle d'Aosta e Liguria	Large (100-190)	2	0	10	26	3	0	0	14	
Piemonte, Valle d'Aosta e Liguria	Extra Large (191+)	1	0	4	16	1	0	0	10	
Piemonte, Valle d'Aosta e Liguria	Large and Extra Large (100+)	0	0	0	0	0	4	0	0	
Piemonte, Valle d'Aosta e Liguria	Medium, Large and Extra Large (20+)	0	8	0	0	0	0	10	0	
Emilia Romagna	Small (5-19)	67	39	131	485	217	164	49	704	**2554**
Emilia Romagna	Medium (20-99)	25	10	108	225	41	33	8	165	
Emilia Romagna	Large (100-190)	3	0	12	18	0	0	0	7	
Emilia Romagna	Extra Large (191+)	2	0	10	13	0	0	0	9	
Emilia Romagna	Large and Extra Large (100+)	0	2	0	0	2	4	1	0	
Toscana	Small (5-19)	46	161	48	489	199	141	58	560	**2137**
Toscana	Medium (20-99)	0	0	0	183	0	25	0	99	
Toscana	Large (100-190)	0	0	0	12	0	0	0	0	
Toscana	Extra Large (191+)	0	0	0	8	0	0	0	0	
Toscana	Large and Extra Large (100+)	0	0	0	0	0	2	0	8	
Toscana	Medium, Large and Extra Large (20+)	9	18	28	0	30	0	11	0	
Marche, Umbria, Abruzzo	Small (5-19)	64	69	52	493	249	207	50	615	**2321**
Marche, Umbria, Abruzzo	Medium (20-99)	16	24	29	216	0	35	0	101	
Marche, Umbria, Abruzzo	Large (100-190)	1	0	0	20	0	0	0	4	
Marche, Umbria, Abruzzo	Extra Large (191+)	1	0	0	11	0	0	0	3	
Marche, Umbria, Abruzzo	Large and Extra Large (100+)	0	2	5	0	0	2	0	0	
Marche, Umbria, Abruzzo	Medium, Large and Extra Large (20+)	0	0	0	0	46	0	5	0	

		Food	Garments	Machinery and Equipment	Other Manufacturing	Construction	Retail	Hotels	Other Services	Grand Total
Lazio	Small (5-19)	36	0	11	142	215	204	43	596	**1610**
Lazio	Medium (20-99)	0	0	5	49	43	42	10	149	
Lazio	Large (100-190)	0	0	0	4	3	1	2	13	
Lazio	Extra Large (191+)	0	0	0	4	2	1	1	11	
Lazio	Large and Extra Large (100+)	0	0	1	0	0	0	0	0	
Lazio	Medium, Large and Extra Large (20+)	7	0	0	0	0	0	0	0	
Lazio	Small, Medium, Large and Extra Large (5+)	0	13	0	0	0	0	0	0	
Molise, Puglia	Small (5-19)	80	62	27	258	279	244	40	624	**1976**
Molise, Puglia	Medium (20-99)	20	0	12	92	45	0	0	103	
Molise, Puglia	Large (100-190)	1	0	0	7	0	0	0	6	
Molise, Puglia	Extra Large (191+)	1	0	0	4	0	0	0	4	
Molise, Puglia	Large and Extra Large (100+)	0	0	1	0	2	0	0	0	
Molise, Puglia	Medium, Large and Extra Large (20+)	0	22	0	0	0	31	11	0	
Campania, Basilicata, Calabria	Small (5-19)	99	69	27	371	379	339	66	892	**2793**
Campania, Basilicata, Calabria	Medium (20-99)	28	0	12	133	71	54	0	177	
Campania, Basilicata, Calabria	Large (100-190)	0	0	0	11	0	1	0	12	
Campania, Basilicata, Calabria	Extra Large (191+)	0	0	0	5	0	2	0	6	
Campania, Basilicata, Calabria	Large and Extra Large (100+)	3	0	1	0	5	0	0	0	
Campania, Basilicata, Calabria	Medium, Large and Extra Large (20+)	0	17	0	0	0	0	15	0	
Sardegna, Sicilia	Small (5-19)	76	0	11	174	237	263	44	574	**1648**
Sardegna, Sicilia	Medium (20-99)	14	0	0	44	36	40	0	91	
Sardegna, Sicilia	Large (100-190)	0	0	0	0	2	0	0	5	
Sardegna, Sicilia	Extra Large (191+)	0	0	0	0	1	0	0	3	
Sardegna, Sicilia	Large and Extra Large (100+)	1	0	0	6	0	3	0	0	
Sardegna, Sicilia	Medium, Large and Extra Large (20+)	0	0	4	0	0	0	12	0	
Sardegna, Sicilia	Small, Medium, Large and Extra Large (5+)	0	8	0	0	0	0	0	0	
		945	**767**	**1449**	**7706**	**3720**	**3043**	**783**	**10322**	**28735**

Table 11: Item Response Rates

	Screener/Interview	d2	l1	n2a	all TFP variables
Panel	Fresh	99.9%	100.0%	99.8%	58.5%
	Panel	100.0%	100.0%	100.0%	78.4%
Size	Small (5-19)	100.0%	100.0%	99.8%	59.7%
	Medium (20-99)	100.0%	100.0%	100.0%	62.6%
	Large (100+)	99.5%	100.0%	99.5%	55.4%
Region	Lombardia	100.0%	100.0%	100.0%	46.3%
	Veneto, Trentino e Friuli Venezia Giulia	100.0%	100.0%	100.0%	59.0%
	Piemonte, Valle d'Aosta e Liguria	99.2%	100.0%	99.2%	54.4%
	Emilia Romagna	100.0%	100.0%	100.0%	56.5%
	Toscana	100.0%	100.0%	100.0%	61.4%
	Marche, Umbria, Abruzzo	100.0%	100.0%	99.2%	72.0%
	Lazio	100.0%	100.0%	100.0%	52.9%
	Molise, Puglia	100.0%	100.0%	100.0%	60.7%
	Campania, Basilicata, Calabria	100.0%	100.0%	100.0%	61.1%
	Sardegna, Sicilia	100.0%	100.0%	100.0%	67.3%
Sector	Food	100.0%	100.0%	100.0%	61.7%
	Garments	100.0%	100.0%	100.0%	66.0%
	Machinery & Equipment	100.0%	100.0%	100.0%	57.9%
	Other Manufacturing	100.0%	100.0%	100.0%	56.9%
	Construction	99.3%	100.0%	98.6%	N/A
	Retail	100.0%	100.0%	100.0%	N/A
	Hotels	100.0%	100.0%	100.0%	N/A
	Other Services	100.0%	100.0%	100.0%	N/A
Overall	Italy 2024	99.9%	100.0%	99.8%	59.8%

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).