

List of indicators

The dashboard visually displays the main indicators of the impact of the COVID-19 pandemic on the private sector in 48 countries. The indicators include measures of the performance of businesses, their responses, and access to public support. The variables were constructed using the harmonized Business Pulse Surveys (BPS) and the Enterprise Survey follow-up on COVID-19 (WBES). The Business Pulse Surveys were conducted by the World Bank Group over the phone and the web in collaboration with implementing partners in each country. More on the BPS details can be found [here](#). More information on the WBES follow-up on COVID-19 can be found at [\[https://www.enterprisesurveys.org/en/covid-19\]](https://www.enterprisesurveys.org/en/covid-19).

The indicators are based on the responses from business owners or their representatives. The following indicators are available on the dashboard.

Table 1: Description of Indicators

Indicator	Description
Percentage change in sales relative to same period of last year	This indicator represents the percentage change in the sales revenue of the establishment in the last 30 days before the interview was conducted, compared with the same period in 2019
Percentage of establishments with decline in sales	This indicator represents the fraction of establishments that reported a decline in sales revenue in the last 30 days before the interview was conducted compared with the same period in 2019
Share of establishments that hired workers	This indicator represents the share of establishments that hired workers in the last 30 days before the interview was conducted, expressed in percentages.
Share of establishments that laid off workers	This indicator represents the share of establishments that laid off workers in the last 30 days before the interview was conducted, expressed in percentages.
Share of establishments that granted leave of absence to workers	This indicator represents the share of establishments that granted paid and/or unpaid leave to workers in the last 30 days before the interview was conducted, expressed in percentages.
Share of establishments that reduced hours worked of their employees	This indicator represents the share of establishments that reduced the working hours of employees in the last 30 days before the interview was conducted, expressed in percentages.
Share of establishments that reduced wages	This indicator represents the share of establishments that reduced the wages and/or benefits of their workers in the last 30 days before the interview was conducted, expressed in percentages.
Share of establishments in arrears or that expect to fall in the next 6 months	This indicator represents the share of establishments that have already fallen or expects to fall in arrears in any of its outstanding liabilities in the next 6 months, expressed in percentages.
Share of establishments that received public assistance	This indicator represents the share of establishments (expressed in percentages) that received one or more national, state or local government support measures that were issued in response to the pandemic.
Received Policy: Access to credit	This indicator represents the share of establishments (expressed in percentages) that received government support measures in any of the following forms: <ul style="list-style-type: none"> ▪ Access to new credit; ▪ Loans with subsidized interest rates

Received Policy: Cash transfers	This indicator represents the share of establishments (expressed in percentages) that received government support in the form of cash transfers.
Received Policy: Payment deferrals	This indicator represents the share of establishments (expressed in percentages) that received government support in the form of <ul style="list-style-type: none"> • Deferrals of rent, mortgage, or utilities, and • Deferrals of payments of credit, suspension of interest payments or rollover of debt.
Received Policy: Tax reductions or exemptions	This indicator represents the share of establishments (expressed in percentages) that received government support in the form of deferrals or reductions on taxes, and exemptions from other fiscal obligations.
Received Policy: Wage subsidies	This indicator represents the share of establishments (expressed in percentages) that received government support in the form of wage subsidies
Reason for no access to public support: Applied but not received public support	This indicator represents the share of establishments (expressed in percentages) that applied for government support but did not receive any.
Reason for no access to public support: It was too complicated to apply	This indicator represents the share of establishments (expressed in percentages) that did not receive government support because the application process was too complicated.
Reason for no access to public support: Was not aware of public support	This indicator represents the share of establishments (expressed in percentages) that did not receive government support because they were not aware of any existing government support program.
Reason for no access to public support: Were not eligible for public support	This indicator represents the share of establishments (expressed in percentages) that did not receive government support because they do not meet the eligibility criteria for such support.

The dashboard reports unconditional averages of the above indicators for each country (i.e., without controlling for other observable characteristics which may be correlated with the indicator of interest). Additionally, within each country, it reports the unconditional averages of each indicator for each size and sector category. Conclusions or comparisons drawn across countries using only unconditional averages may be misleading, as such comparisons may need to consider other aspects of the data collected such as size and sector composition, representativeness of the sample frame, sampling strategy, timing of the survey, stringency of lock-down, etc. Section of sample weights describes the representativeness of the samples for each country. Furthermore, in some countries, the weights have been corrected to account for non-response rates depending on data availability.

The size categories are **micro** (with 0 to 4 workers); **small** (with 5-19 workers); **medium** (with 20-99 workers); and **large** (100+ workers). To assign each establishment to a size category, we compute the total number of workers by adding the number of full-time workers to half of the number of part-time workers (i.e. full-time workers + 0.5 part-time workers) as at January 2020. We then sort each establishment to the category corresponding to their total number of workers. The sector categories are **agriculture**, **manufacturing**, **retail** and **other services**, and each establishment is assigned to a sector that corresponds to its main reported economic activity.

In order to include an indicator for each country, and for each size or sector category within a country into the dashboard, certain eligibility criteria must be met, as described in the computation of indicators section of this document. We provide an extensive discussion of these criteria [here](#).

The second wave of the BPS and WBES are currently underway in several countries. The number of countries and indicators from this round will be made available on the dashboard in the coming months. As the pandemic continues, additional waves of surveys will be conducted in many countries and results will be updated on the dashboard.

Overview of the Business Pulse Survey and ES follow-up on COVID-19

To understand the impact of the pandemic on businesses in the private sector, the World Bank Group (WBG) developed a brief firm survey instrument to collect data measuring the pulse of the private sector: how the pandemic affected the private sector, government policies to caution these effects, and how businesses have responded to the shock from the pandemic. Data collection aimed at covering all sectors of the economy, businesses of different sizes, and a large range of countries with different income levels as well as different levels of exposure to the pandemic shock.

Combined with the WBES follow-up on COVID-19, the dataset covers over 120,000 businesses across 60 countries and measures the impact of the pandemic across several important dimensions: sales, labor adjustments, liquidity and insolvency, operations of the business, firm responses, accessibility to public policy support, policy preferences of firms, expectations and uncertainty about the future. The description of the sample coverage, collection date, number of observations, source of the sampling frame, medium of interview, weights and stratification information can be found [here](#). The appendix shows the standard version of the BPS questionnaire.

Despite the creation of a standard baseline questionnaire with core modules, a fully standardized approach to implementation was not possible. In some cases, additional questions and/or modules were added to the questionnaire, and harmonization of variables was necessary to create a comparable set of indicators.

Sampling design

The source of the sampling frame was based on either census from statistical agencies, ministries of finance or economy, or business registries. The fourth column of Table (2), presents the source of the sampling frame across countries in the survey. The survey was designed to obtain a representative sample where possible. In most countries where sampling weights are available, these are corrected for non-response rates. Where available, computations use sampling weights. In the sixth column of Table (2), details about sampling weights were documented. The table includes other information such as the survey period, number of observations, medium the interview was conducted (phone vs web-based), and sample stratification.

Computation of the indicators

The computation of the indicators excludes outliers (top 1% and bottom 1%), businesses in health or education, and businesses permanently closed at the time of the interview. In addition, variables with less than 25% response rate are not reported, and indicators for a size or sector category are only reported if there are more than 30 observations in that cell.¹ For many of the countries in the dataset, the survey period spans across several months, while in the dashboard, each country survey is mapped to the month in which the majority of the establishments was interviewed.

Table 2: Summary of Sampling Design

¹ In each country and for each variable, the fraction of missing observations was computed conditional on the skipping conditions for each variable. For cases where the fraction of missing values is above 75%, the variable is excluded from the computation.

Name of Country	Dates of Survey	Number Observations	Source of Sampling frame	Medium of interview	Contains Sampling weights?	Details about Stratification
Afghanistan	June 11 to July 2, 2020	386	NSIA's Business Establishment Survey (BES) 2015	Phone	Weights corrected for non-response rates	The sample representation was not stratified for each of the targeted size categories; however, it was stratified for each of the targeted sector categories. The targeted size categories are small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.
Bangladesh	April 22 to May 13 2020	500	List of MSMEs from different sources	Phone	No weights	The sample representation was not stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19), and medium (20-99) firms and the targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.
Brazil -Sao Paulo	June 19 to July 31, 2020	1,650 in the first round and 1,100 in the fourth round	SEBRAE contact list	Phone	Weights corrected for non-response rates	The sample representation was stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-4) and small (5-19) firms, and the targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services. Weights were constructed with the labor census data and also with the revenue authority data.
Bulgaria (BPS)	May 14 to June 12 2020	940	A list drawn from the business register by the statistical institute	Phone	No weights	The sample representation was stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19) medium (20-99) and large (100+) firms, and the targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.

Cambodia	June 18 to July 13, 2020	501	National Institute of Statistic (NIS), Yellow Pages, GMAC, Cambodia Chamber of Commerce (CCC), Cambodia Business Database, Google search, List of SME from Battambang department of commerce.	Phone	No weights	The sample representation was not stratified for each of the targeted size categories, and also not stratified for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are manufacturing, retail/wholesale and other services.
Cote d'Ivoire	April 14 to April 30, 2020	529	Directorate General of Taxes (DGI)	phone	Weights not corrected for non-response rates	The sample representation was stratified for each of the targeted size categories, and for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.
Indonesia	June 18 to June 30th	865	Manufacturing Directory 2017 and Economic Census Directory 2016	Phone	Weights corrected for non response rates	The sample representation was not stratified for each of the targeted size categories; however, it was stratified by manufacturing and service sector. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are manufacturing, retail/wholesale and other services.
Kenya	June 10 to August 31, 2020	1797	2017 Establishment Census (KNBS) Statistical Office	Phone	Weights corrected for non response rates	The sample representation was stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-3), small (4-9), small-medium (10-49), medium-large (50-149+), and large (150+) firms. The targeted sector categories are Agriculture, food processing, wearing apparel, other manufacturing and mining, retail/wholesale,

						construction/real estate, transportation and storage, accommodation, food services, ICT/Finance/Professional services, other services.
Kosovo	June 10 to July 23, 2020	2,087	Business tax registry	Phone	Weights not corrected for non-response rates	The sample representation was stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19), medium (20-99), and large (100+) firms. The targeted sector categories are Manufacturing, Retail, Other services
Madagascar	June 9 to July 29, 2020	865	Statistical frame (Répertoire des Entreprises à Madagascar)	Phone and Web	Weights corrected for non response rates	The sample was stratified by for legal status (EI, SA, SARL), sector (whether a firm was in tourism or not) and region (a zone with lock-down restrictions or without such restrictions).
Mali	June 12, 2020 to June 28, 2020	292	Database maintained by survey companies (including 3000 companies), cross-checked the Chamber of Commerce and Industry, API-Mali, an internet data provider (to confirm that the companies are still in business because of their internet subscription)	Web	No weights	The sample representation was neither stratified for each of the targeted size categories, nor each of the targeted sector categories. The targeted size categories are small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.

Nepal	May 21 to June 06, 2020	504	The curated pool will entail a list of enterprises from business associations such as the Federation of Nepalese Chambers of Commerce and Industry, Federation of Nepalese Cottage and Small Industries (FNCSI), Nepalese Young Entrepreneurs ' Forum (NYEF), Federation of Women Entrepreneurs ' Association of Nepal (FWEAN).		No weights	The sample representation was not stratified for each of the targeted size categories; however, it was stratified for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19) and medium (20-99). The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.
Nigeria	24th July to 10th September	2,518	The frame came from over 2 million firms that are applicants of the bank of industry, combined with 68000 firms that applied to the GEM program in Nigeria	Phone	No weights	The sample representation was stratified by sectors (manufacturing and services); size (5-10 employees; 11-50 employees) and locations (leading versus lagging states, measured by the median per capital income of states in 2019).
Pakistan	June 9 to July 21, 2020	1,293	Economic census, with updates from survey firm	Phone	No weights	The sample representation was not stratified for each of the targeted size categories; however, it was stratified for each of the targeted sector categories. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.

Palestine (West Bank and Gaza)	June 21 to July 30.	2,600	Establishment s Census of 2017	Majority face-to- face, with some phone interviews	Weights corrected for non- response rates	The sample representation was stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.
Poland	May 26 to July 1, 2020	1335		Phone	Weights corrected for non- response rates	The sample representation was stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.
Romania	May 11 to June 26 2020	937	Institutul National de Statistica	Phone	No weights	The sample representation was stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are manufacturing, retail/wholesale and other services.
South Africa	May 13 to June 3 2020	2,022	Firm listings from MSME government department (DSBD)	Phone and web	Weights corrected for non- response rates	The sample representation was stratified for each of the targeted size categories and for each of the targeted sector categories. The targeted size categories are micro (0-4), small (5-19), and medium (20-99) firms. The targeted sector categories are manufacturing, retail/wholesale and other services.
Sri Lanka	May 2nd to June 10th, 2020	500	The frame comes from sources such as business associations and chamber of commerce	Phone	no weights	
Sudan	July 5 to July	1,376	The frame comes from an updated	Phone	no weights	

	29, 2020		list of the enterprises and retail shops in Khartoum State prepared by the World Bank, and a list prepared by the CBS.			
Tunisia	June 1 to June 25, 2020	3680	The national business directory 2018 (for formal firms) and the employer survey (for informal firms)	Phone	For formal firms, weights corrected for non-response rates. No weights for informal firms	For the formal firms, the sample representation was not stratified for each of the targeted size categories; however, it was stratified for each of the targeted sector categories and exporting status. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are manufacturing, retail/wholesale and other services. For informal firms, there was no stratification.
Turkey	June 8 to July 22, 2020	1,424	List of the Union of Chambers and Commodity Exchanges	Online	No weights	The sample representation was stratified for each of the targeted size categories, and for each of the targeted sector categories. Due to low response rates, weights do not reflect representativeness and were not used. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.
Uzbekistan	Aug 22 to Sept 14, 2020	937	List of business associations	Phone	Weights not corrected for non-response rates	The sample representation was stratified for each of the targeted size categories, and for each of the targeted sector categories. Due to low response rates, weights do not reflect representativeness and were not used. The targeted size categories are micro (0-4), small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.

Vietnam	June 16 to July 20, 2020	497	2018 Establishment Census (GSO) Statistical Office	Phone/Fac e-to-face	Weights corrected for non-response rates	The sample representation was stratified for each of the targeted size categories, and for each of the targeted sector categories. The targeted size categories are small (5-19), medium (20-99) and large (100+) firms. The targeted sector categories are Agriculture, manufacturing, retail/wholesale and other services.
Albania	June 5th - June 26th 2020	344	Completed interviews in the Albania 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Armenia	June 9 to June 19 2020	101	Completed interviews in the 2019 Armenia Micro Enterprise Survey	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Chad	June 18 to 28th June 2020	101	Completed interview in the Chad 2018 Enterprise Surveys	phone and personal interview	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Cyprus	June 2 to June 30	167	Completed interviews in Cyprus 2019 ES	Phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology

El Salvador	June 10 to August 7, 2020	391	Completed interviews in the El Salvador	Phone and web	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Georgia	June 02 to June 10 2020	597	Completed interviews in Georgia 2019 ES and Micro ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Greece	June 3 to July 2, 2020	530	Completed interviews in the Greece 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Guatemala	June 24 to August 7, 2020	199	Completed interviews in Guatemala 2017 ES	Phone and Web	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Guinea	June 16 to 27 June 2020	103	Completed interview in the Guinea 2016 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology

Honduras	June 24 to August 7, 2020	163	Completed interview in the Honduras 2016 ES	Phone and Online	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Italy	May 27 - June 30, 2020	419	Completed interviews in Italy 2019 ES	phone and Online	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Jordan	July 6 - August 5, 2020	498	Completed interviews in Jordan 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Moldova	May 19 to May 29, 2020	283	Completed interviews in Moldova 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Mongolia	August 3 - August 15, 2020	284	Completed interviews in Mongolia 2019 ES	phone and online	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology

Nicaragua	June 17 to August 7, 2020	184	Completed interviews in the Nicaragua 2016 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Niger	June 17 to 27, 2020	67	Completed interviews in Niger 2017 ES	phone and personal interview	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Russia	June 3 to June 29	1145	Completed interviews in the Russian Federation 2019 ES.	web and Phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Slovenia	July 6 - August 5, 2020	249	Completed interviews in Slovenia 2019 ES	Phone and Online	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Togo	June 16 to 27 June 2020	51	Completed interviews in the Togo 2016 ES	phone and personal interview	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology

Zambia	June 16 to July 17, 2020	533	Completed interviews in the Zambia 2019 ES	Phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Zimbabwe	June 12 to July 13 2020	813	Completed interviews in the Zimbabwe 2016 ES and Micro ES	Web and phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Belarus	August 11- August 28, 2020	530	Completed interviews in Belarus 2018 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Bulgaria	July 15- September 4, 2020	521	Completed interviews in the Bulgaria 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Croatia	September 5 - September 30, 2020	342	Completed interviews in the Croatia 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology

Hungary	September 7 - September 30, 2020	619	Completed interviews in the Hungary 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Morocco	July 16 to August 28, 2020	781	Completed interviews in Morocco 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Poland	July 27 - August 28, 2020	975	Completed interviews in the Poland 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology
Romania	August 13 - September 30, 2020	514	Completed interviews in the Romania 2019 ES	phone	Weights corrected for non-response rates	See sampling note at: https://www.enterprisesurveys.org/en/methodology