# Latin America - Mapping the Landscape of Transactions: The Governance of Business Relations in Latin America 2017-2018

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# Sampling

## Sampling Procedure

The sampling methodology of the World Bank's Enterprise Survey generates sample sizes appropriate to achieve two main objectives: first, to benchmark the investment climate of individual economies across the world and, second, to conduct firm performance analyses focusing mainly on how investment climate constraints affect productivity and job creation in selected sectors.

To achieve both objectives the sampling methodology:

- Generates a sample representative of the whole non-agricultural private economy that substantiates assertions about this part of the economy, not only about the manufacturing sector. The overall sample should include, in addition to selected manufacturing industries, services industries and other relevant sectors of the economy; and

- Generates large enough sample sizes for selected industries to conduct statistically robust analyses with levels of precision at a minimum 7.5% precision for 90% confidence intervals about:

i. Estimates of population proportions (percentages), at the industry level; and

ii. Estimates of the mean of log of sales at the industry level.

STRATIFICATION

The population of industries to be included in the Enterprise Surveys and Indicator Surveys, the Universe of the study, includes the following list (according to ISIC, revision 3.1): all manufacturing sectors (group D), construction (group F), services (groups G and H), transport, storage, and communications (group I), and subsector 72 (from Group K). Also, to limit the surveys to the formal economy the sample frame for each country should include only establishments with five (5) or more employees. Fully government owned firms are excluded as the Universe is defined as the non-agricultural private sector.

SAMPLE SIZE

Overall sample sizes for both Enterprise Surveys and Indicator Surveys are determined by the degree of stratification of the sample. The overall sample size depends on the decision of the sample size for each level of stratification. In all ES and IS the objectives of stratification are to allow an acceptable level of precision for estimates, at, first, different first, within size levels (small, medium, and large), second, at the different levels of regional stratification, and third, for the different sectors of stratification (which, as explained before, are chosen depending on the size of the economy).

Given that both the Enterprise Survey and the Indicator Survey include more than 100 indicators the computation of the minimum sample size required is complicated since it depends on the variance of each indicator. However, many of the indicators computed from the survey are proportions, such as percentage of firms that engage in X activity or chose Y action. In this case the computation of the sample size is simplified by the fact that the variance of a proportion is bounded. Assuming the maximum variance (0.5) the minimum level of precision is guaranteed.

## Response Rate

Non-response rates due to respondents spontaneously answering "Don't Know" (which was not displayed as a possible option in the 'show card' listing possible responses). Fewer than 3% of the respondents chose at least one "Don't Know" across the six questions about the methods of governing relations with suppliers and customers. The question with the most frequent occurrence of "Don't Know" on relations with suppliers is on paid private dispute resolution (1.4% of the sample); for relations with customers, the question about personal trust had the highest item non-response (1.2% of the sample). Given the low item non-response rates, in our application of LCA we drop observations that have at least one "Don't Know" in the relevant series of questions. This leaves 3,350 observations on relations with suppliers (97.7% of the sample), and 3,339 observations on relations with customers (97.3% of the sample).

## Weighting

The data includes sampling weights. All results are obtained with proper use of these weights and thus refer to the entire population of establishments in the six countries.

# Questionnaires

## Overview

As part of the implementation of the surveys, twelve newly designed questions were administered, six concerning interactions with the firms' suppliers and six on customer interactions. These questions were on the effectiveness of various methods of preventing or resolving problems when implementing agreements. When designing questions to be administered in a long survey and addressed to firms of all types, in different institutional settings, both conceptual and practical issues immediately arise.

# Data Collection

## Data Collection Dates

| Start | End | Cycle |
|---|---|---|
| 2017-03 | 2018-03 | Argentina |
| 2017-01 | 2017-06 | Bolivia |
| 2017-03 | 2018-10 | Ecuador |
| 2017-02 | 2017-08 | Paraguay |
| 2017-03 | 2018-03 | Peru |
| 2017-03 | 2017-12 | Uruguay |

## Data Collection Mode

Computer Assisted Personal Interview [capi]

**DATA COLLECTION NOTES**

Interviews were conducted face-to-face using tablet devices (CAPI) and covered a wide range of topics. All interviews were conducted by local contractors in Spanish.

# Data Processing

## Data Editing

The model parameters that authors use to estimate posterior probabilities are obtained from the software Latent GOLD (Vermunt and Magidson 2016), which does not provide exact parameters and applies some rounding (See the Excel file with estimated model parameters, attached as Related Material). As a result, the estimates of posterior probabilities calculated from the estimated model parameters differ somewhat from the estimates that are obtained directly from the Latent GOLD output.

# Data Appraisal

No content available

# Related Materials

## Questionnaires

## Mapping the Landscape of Transactions (Latin America): Questionnaire

| | |
|---|---|
| Title | Mapping the Landscape of Transactions (Latin America): Questionnaire |
| Filename | Questionnaire.pdf |

## Reports

## Mapping the Landscape of Transactions (Latin America): Policy Research Working Paper

| | |
|---|---|
| Title | Mapping the Landscape of Transactions (Latin America): Policy Research Working Paper |
| Date | 2018-08-01 |
| Language | English |
| Filename | WPS8564.pdf |

## Latent GOLD: Output

| | |
|---|---|
| Title | Latent GOLD: Output |
| Filename | LatentGOLD_output.xlsx |

## The Argentina 2017 Enterprise Survey: Implementation Report

| | |
|---|---|
| Title | The Argentina 2017 Enterprise Survey: Implementation Report |
| Language | english |
| Filename | Argentina 2017 ES Implementation Report.pdf |

## The Bolivia 2017 Enterprise Survey: Implementation Report

| | |
|---|---|
| Title | The Bolivia 2017 Enterprise Survey: Implementation Report |
| Language | English |
| Filename | Bolivia 2017 ES Implementation Report.pdf |

## The Ecuador 2017 Enterprise Survey: Implementation Report

| | |
|---|---|
| Title | The Ecuador 2017 Enterprise Survey: Implementation Report |
| Language | English |
| Filename | Ecuador 2017 ES Implementation Report.pdf |

## The Paraguay 2017 Enterprise Survey: Implementation Report

| | |
|---|---|
| Title | The Paraguay 2017 Enterprise Survey: Implementation Report |
| Language | English |
| Filename | Paraguay 2017 ES Implementation Report.pdf |

## The Peru 2017 Enterprise Survey: Implementation Report

| | |
|---|---|
| Title | The Peru 2017 Enterprise Survey: Implementation Report |
| Language | English |
| Filename | Peru 2017 ES Implementation Report.pdf |

## The Uruguay 2017 Enterprise Survey: Implementation Report

| | |
|---|---|
| Title | The Uruguay 2017 Enterprise Survey: Implementation Report |
| Language | English |
| Filename | Uruguay 2017 ES Implementation Report.pdf |

# Technical documents

## Mapping the Landscape of Transactions (Latin America): README

| | |
|---|---|
| Title | Mapping the Landscape of Transactions (Latin America): README |
| Date | 2018-08-17 |
| Language | English |
| Filename | Read Me.pdf |