# Replication for "Management and Misallocation in Mexico" by Nicholas Bloom, Leonardo Iacovone, Mariana Pereira-Lopez, and John Van Reenen

### **Overview**

This replication package constructs the analysis file using data from the 2015 National Survey on Productivity and Competitiveness of Micro, Small, and Medium-sized Enterprises (ENAPROCE), Mexico's first large-scale representative management survey. A second wave, conducted in 2018, targeted the same sample. We also incorporate data from the 2014 Economic Census to test the robustness of our estimates and calculate export shares at the 6-digit NAICS level.

For the analysis of frictions, we use additional external data, including population estimates from the 2010 Population and Housing Census, combined with household income and expenditure data from the National Survey of Household Income and Expenses (ENIGH), using Small Area Estimates. We also use estimated drive times to the U.S. border, derived from OpenStreetMap data.

Graphs comparing Mexico with U.S. data from the Management and Organizational Practices Survey (MOPS) were created using Plot Digitizer to extract information from graphs in Bloom et al. (2019), as we did not have direct access to the original U.S. MOPS data.

The code is written in Stata. A master script (Master.do) runs the code to generate 12 main figures and 4 tables in the paper, along with 14 tables and 11 figures in the appendix. The replication process takes approximately 90 minutes using the original data and 5 minutes using the mock data provided for testing. All mock data files have the prefix ejem\_ in their names.

## **Data Availability and Provenance Statements**

## **Data Accessibility Statement**

### **Statement about Rights**

■ I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript.

#### **Data sources**

This paper relies on two main data sources that are confidential under Articles 37 and 38 of the Mexican Law on the National System of Statistical and Geographical Information. According to this law, these datasets can only be accessed within the Microdata Lab at the National Statistical Office. Results—including descriptive statistics, graphs, and estimations—can only be

<sup>&</sup>lt;sup>1</sup> The Appendix Includes 13 Figures but the first two (A1 and A2) are generated manually.

released if the statistical authorities overseeing each project determine that they comply with the confidentiality principles established in the law. Therefore, the microdata used in this study **cannot** be made publicly available.<sup>2</sup>

Additionally, as our team contributed to the **survey design**, we had access to **additional variables** related to **data collection monitoring** and **explicitly requested identifiers** for matching with other statistical projects.

- 1. **ENAPROCE data:** Information about the two waves of this survey, including some aggregate descriptive statistics, can be found at https://www.inegi.org.mx/programas/enaproce/2015/ and https://www.inegi.org.mx/programas/enaproce/2018/, respectively.
- 2. *Economic Census:* Information about the Economic Census for 2014, which was used given that it was the sample frame for the survey, along with the most recent Economic Censuses can be found at https://www.inegi.org.mx/programas/ce/2014/

### **Summary of Availability**

■ No data can be made publicly available.

The microdata for this project is used in compliance with the **Mexican Law on the National System of Statistical and Geographical Information**, strictly under **authorization** and within the premises of the **National Statistical Office's Microdata Lab**.

#### **Details on each Data Source**

Table 1. Data sources

| Data.Name         | Data.Files   | Citation                                  |
|-------------------|--|---|
| "ENAPROCE"        | SMEs and large firms ejem_base_pyme_ciega_2015.dta ejem_base_pyme_ciega_2018.dta Microenterprises ejem_base_micro_ciega2015.dta ejem_base_micro_ciega2018.dta Survey operations info ejem_operation_info2015 | ENAPROCE (2015)<br>and ENAPROCE<br>(2018) |
| "Economic Census" | ejem_CE_2014.dta<br>ejem_CE_2019.dta   | Economic Census (2014)                    |

<sup>&</sup>lt;sup>2</sup> Log files are not among the types of files that can be submitted for clearance.

| Data.Name   | Data.Files   | Citation   |
|---|--|--|
|   |  | Economic Census<br>(2019)  |
| "Municipality data"   | Municipality_data_all.dta  | 2010 National Population and Household Census, INEGI. Municipality level data based on various sources documented in Appendix B. Additional datasets |
| "Tradability and KIBS" (NAICS 6 digits dataset)             | Tradability and KIBS.dta   | KIBS defined according to <b>Eurostat</b> and Tradability according to <b>Nayyar et al. (2021)</b>   |
| "Share exports clase"<br>(NAICS 6 digits dataset)           | Share exports clase.dta  | Share of exports at the NAICS 6 digits level using data from the Economic Census (2014)  |
| "Data extracted from graphs in Bloom et al. (2019)          | Age_bins_US.dta<br>Data_US_bins.dta  | Data on age bins and management score bins, estimated using the graphs provided in <b>Bloom et al. (2019).</b> No access to the underlying data.     |
| Maps data state level                                       | SHAPEFILES Entidades_2010_5A.dbf Entidades_2010_5A.prj Entidades_2010_5A.sbn Entidades_2010_5A.sbx Entidades_2010_5A.shp Entidades_2010_5A.shx | https://www.inegi.org.<br>mx/app/biblioteca/fich<br>a.html?upc=702825292<br>805  |
| "Performance measures at the decile level (for Figure 1)"   | Management and performance.dta   | Not applicable   |
| "Management score densities Mexico and U.S. (for Figure 2)" | Densities MX vs US.dta   | Not applicable   |

| Data.Name  | Data.Files  | Citation       |
|--|---|----------------|
| "Data binscatter size<br>management U.S. and<br>Mexico (for Figure 3)"   | Data Binscatter US.dta Binscatters size management MX vs US.dta | Not applicable |
| "Age bins and mean and sd of management MX (For Figure 4 and 5)"   | Age bin mean sd<br>manufacturing.dta                            | Not applicable |
| "Data management practices by state (for Figure 6)"  | Map management state.dta  | Not applicable |
| "Data vingtiles of management practices ENAPROCE 2015 vs. ENAPROCE 2018 (for Appendix Figure A3)"                  | Vingtiles management 2014<br>2017.dta                           | Not applicable |
| "Data management distributions by sectors comparing 2014 and 2017 (for Appendix Figures A4 and A5)"                | Datos histograma updated<br>2019.dta                            | Not applicable |
| "Data comparing employment and firm distribution of the Economic Census and ENAPROCE 2015(For Appendix Figure A6)" | Distributions overlapping sample.dta                            | Not applicable |
| "Data age bins and mean<br>and sd of TFP and Value<br>added (for Appendix<br>Figures A7-A10)"                      | Data age TFP Value added.dta                                    | Not applicable |

## **Description of folder contents**

This folder structure of this package is as follows:

- **Dofiles:** Holds the Stata code to produce all the different stages of the analysis.
- data: Holds example datasets, mostly mock data with expanded observations based on examples provided for coding by the Statistical Office (INEGI).
- working: Stores the datasets produced for estimations and graphs. It currently
  includes the intermediate data cleared to produce graphs, but the folder
  working/Temp includes the datasets assembled for estimations and graphs.
- Outputs: Stores all the results from the analysis, including tables and figures.

- o **Outputs/figures:** Includes real figures produced from intermediate data cleared by INEGI that are included in the paper.
- Outputs/figures/mock: Includes the figures produced based on the mock data provided just for coding purposes.
- Outputs/tables: Includes all the tables produced in the analysis based on the mock data provided.
- Outputs/appendix: Includes all the tables and figures in the Online Appendix
  - **Outputs/appendix/figures:** Includes real figures produced from intermediate data cleared by INEGI that are included in the paper.
  - Outputs/appendix/figures/mock: Includes the figures produced based on the mock data provided just for coding purposes.
  - Outputs/appendix/tables/mock: Includes all the tables produced for the Online Appendix based on the mock data provided.

## **Computational requirements**

### **Software requirements**

Stata is used in the analysis of this project. This project was written using Stata 18 and has not been tested on older versions.

### **Memory and Runtime Requirements**

### *Summary*

Approximate time required to reproduce the analyses on a standard (CURRENT YEAR) desktop machine: 90 minutes if starting from the raw data (not provided for confidentiality). Approximately 5 minutes using the mock data provided to test the replication package.

#### **Details**

The code was last run on a laptop with an 11th Gen Intel(R) Core(TM) i5-1145G7 @ 2.60GHz (1.50 GHz), 16GB RAM, and Windows 10 Enterprise. Computation using the mock data took 10 minutes.

The original code was executed at **INEGI's Microdata Lab** on a **virtual desktop** with an additional **32GB of allocated memory**, taking **90 minutes** to run the full code.

#### Description of programs/code

- -Program Data prepare 2015 mock data.do and Data prepare 2018 mock data.do organizes and clean the confidential data from ENAPROCE 2015 and 2018.
- -Program **Data assembly and merge.do**, merges the data from ENAPROCE 2015 and ENAPROCE 2018, as well as additional data at the municipality and sectoral level and produces the long and wide versions of the dataset that is used for estimations.
- -Program **Regressions.do** estimates all the regressions included in the main paper based on the long dataset including clean data from ENAPROCE 2015 and ENAPROCE 2018. The

current version relies on mock data provided for coding purposes and the results, of course, differ from those based on the original datasets.

- -Program **Figures.do** generates all the figures included in the paper.
- -Program **Municipality variables.do** generates municipality level variables to be merged with the firm-level datasets.
- -Program **Microenterprisesdata.do** builds the dataset for microenterprises (not included in the main analysis), to test the robustness of the results for firms of this size.
- -Program **Appendix Figures.do** generates all the figures included in the Online Appendix of the Paper.
- -Program **Appendix Tables.do** generates all the tables included in the Online Appendix of the paper.
- -Program **Appendix Table A4.do** generates Appendix Table A4 and is called by the Appendix Tables program.

## **Instructions to Replicators**

- 1. Open Stata
- 2. Open the Master do file.
- 3. Set the working directory (line 33 of the code).
- 4. Run the Master do file in Stata (to create all the tables and figures). This is the only do-file you should need to run.

All required commands are installed before running the rest of the Master file. It checks each command and installs it if missing. This prevents errors and ensures replicability across different machines. If something pops up that you need to download, please download it.

## List of tables and programs

The provided code reproduces:

- All numbers provided in text in the paper
- All tables and figures in the paper
- ☐ Selected tables and figures in the paper, as explained and justified below.

Table 2. Index of code to reproduce tables and figures (main paper)

| Figure/Table<br># Object | Program        | Line<br>number | Output file                    | Notes                |
|--------------------------|----------------|----------------|--------------------------------|----------------------|
| Table 1                  | Regressions.do | 24             | Table1.tex<br>Table1.csv       | MOCK Table           |
| Table 2                  | Regressions.do | 116            | Table 2.tex                    | MOCK Table           |
|                          |                |                | Table2.csv                     |                      |
| Table 3                  | Regressions.do | 203            | Table3.tex                     | MOCK Table           |
|                          |                |                | Table3.csv                     |                      |
| Table 4                  | Regressions.do | 285            | Table4.tex                     | MOCK Table           |
| T: 4                     | Tr. 1          | 4.4            | Table4.csv                     | D 17                 |
| Figure 1                 | Figures.do     | 11             | Figure_1.gph                   | Real Figure          |
|                          |                |                | Figure_1.jpg                   | based on             |
|                          |                |                |                                | intermediate<br>data |
| Figure 2                 | Figures.do     | 110            | Figure_2.gph                   | Real Figure          |
| rigure 2                 | 1 igui cs.uo   | 110            | Figure_2.jpg                   | based on             |
|                          |                |                | Figure_2.png                   | intermediate         |
|                          |                |                | 1.8u.o_2.p8                    | data                 |
| Figure 3                 | Figures.do     | 140            | Figure_3.gph                   | Real Figure          |
| O                        | J              |                | Figure_3.jpg                   | based on             |
|                          |                |                | Figure_3.png                   | intermediate         |
|                          |                |                |                                | data                 |
| Figure 4                 | Figures.do     | 169            | Figure_4a.gph                  | Real Figure          |
|                          |                |                | Figure_4a.jpg                  | based on             |
|                          |                |                | Figure_4a.png                  | intermediate         |
|                          |                |                | Figure_4b.gph                  | data                 |
|                          |                |                | Figure_4b.jpg                  |                      |
|                          |                |                | Figure_4b.png                  |                      |
|                          |                |                | Figure_4c.gph                  |                      |
|                          |                |                | Figure_4c.jpg<br>Figure_4c.png |                      |
| Figure 5                 | Figures.do     | 218            | Figure_5a.gph                  | Real Figure          |
| I igui c 5               | 1 igui cs.do   | 210            | Figure_5a.jpg                  | based on             |
|                          |                |                | Figure_5a.png                  | intermediate         |
|                          |                |                | Figure_5b.gph                  | data                 |
|                          |                |                | Figure_5b.jpg                  |                      |
|                          |                |                | Figure_5b.png                  |                      |
|                          |                |                | Figure_5c.gph                  |                      |
|                          |                |                | Figure_5c.jpg                  |                      |
|                          |                |                | Figure_5c.png                  |                      |
| Figure 6                 | Figures.do     | 268            | Figure_6a.gph                  | Real Figure          |
|                          |                |                | Figure_6a.jpg                  | based on             |
|                          |                |                | Figure_6a.png                  | intermediate         |
|                          |                |                | Figure_6b.gph                  | data                 |
|                          |                |                | Figure_6b.jpg                  |                      |
|                          |                |                | Figure_6b.png                  |                      |

| Figure/Table<br># Object | Program    | Line<br>number | Output file    | Notes       |
|--------------------------|------------|----------------|----------------|-------------|
| Figure 7                 | Figures.do | 354            | Figure_7a.gph  | MOCK Figure |
|                          | 8          |                | Figure_7a.jpg  |             |
|                          |            |                | Figure_7a.png  |             |
|                          |            |                | Figure_7b.gph  |             |
|                          |            |                | Figure_7b.jpg  |             |
|                          |            |                | Figure_7b.png  |             |
| Figure 8                 | Figures.do | 400            | Figure_8a.gph  | MOCK Figure |
|                          |            |                | Figure_8a.jpg  | 5           |
|                          |            |                | Figure_8a.png  |             |
|                          |            |                | Figure_8b.gph  |             |
|                          |            |                | Figure_8b.jpg  |             |
|                          |            |                | Figure_8b.png  |             |
| Figure 9                 | Figures.do | 438            | Figure_9a.gph  | MOCK Figure |
|                          |            |                | Figure_9a.jpg  |             |
|                          |            |                | Figure_9a.png  |             |
|                          |            |                | Figure_9b.gph  |             |
|                          |            |                | Figure_9b.jpg  |             |
|                          |            |                | Figure_9b.png  |             |
| Figure 10                | Figures.do | 484            | Figure_10a.gph | MOCK Figure |
|                          |            |                | Figure_10a.jpg |             |
|                          |            |                | Figure_10a.png |             |
|                          |            |                | Figure_10b.gph |             |
|                          |            |                | Figure_10b.jpg |             |
|                          |            |                | Figure_10b.png |             |
| Figure 11                | Figures.do | 521            | Figure_11a.gph | MOCK Figure |
|                          |            |                | Figure_11a.jpg |             |
|                          |            |                | Figure_11a.png |             |
|                          |            |                | Figure_11b.gph |             |
|                          |            |                | Figure_11b.jpg |             |
|                          |            |                | Figure_11b.png |             |
|                          |            |                | Figure_11c.gph |             |
|                          |            |                | Figure_11c.jpg |             |
|                          |            |                | Figure_11c.png |             |
|                          |            |                | Figure_11d.gph |             |
|                          |            |                | Figure_11d.jpg |             |
|                          |            |                | Figure_11d.png |             |
| Figure 12                | Figures.do | 605            | Figure_12a.gph | MOCK Figure |
|                          |            |                | Figure_12a.jpg |             |
|                          |            |                | Figure_12a.png |             |
|                          |            |                | Figure_12b.gph |             |
|                          |            |                | Figure_12b.jpg |             |
|                          |            |                | Figure_12b.png |             |
|                          |            |                | Figure_12c.gph |             |
|                          |            |                | Figure_12c.jpg |             |
|                          |            |                | Figure_12c.png |             |
|                          |            |                | Figure_12d.gph |             |
|                          |            |                | Figure_12d.jpg |             |
|                          |            |                | Figure_12d.png |             |

Table 3. Index of code to reproduce Online Appendix tables and figures

| Figure/Table<br># Object | Program              | Line<br>number | Output file           | Notes         |
|--------------------------|----------------------|----------------|-----------------------|---------------|
| Table A1                 | Appendix Tables.do   | 9              | TableA1.xlsx          | MOCK Table    |
| Table 111                | Tipperium Tubrosius  |                | TableA1p1.tex         | 110 011 14010 |
|                          |                      |                | TableA1p2.tex         |               |
|                          |                      |                | TableA1p3.tex         |               |
|                          |                      |                | TableA1p4.tex         |               |
| Table A2                 | Appendix Tables.do   | 268            | TableA2.tex           | MOCK Table    |
|                          | <b>F</b> F           |                | TableA2.csv           |               |
| Table A3                 | Appendix Tables.do   | 339            | TableA3.tex           | MOCK Table    |
|                          | 11-                  |                | TableA3.csv           |               |
| Table A4                 | Appendix Tables.do   | 398            | TableA4PanelA1Man.xls | MOCK Table    |
|                          | Appendix tables A4   |                | TableA4PanelA1Man.tex |               |
|                          | iippellam tables iii |                | TableA4PanelA1Ser.xls |               |
|                          |                      |                | TableA4PanelA1Ser.tex |               |
|                          |                      |                | TableA4PanelA2Man.xls |               |
|                          |                      |                | TableA4PanelA2Man.tex |               |
|                          |                      |                | TableA4PanelA2Ser.xls |               |
|                          |                      |                | TableA4PanelA2Ser.tex |               |
|                          |                      |                | TableA4PanelB1Man.xls |               |
|                          |                      |                | TableA4PanelB1Man.tex |               |
|                          |                      |                | TableA4PanelB1Ser.xls |               |
|                          |                      |                | TableA4PanelB1Ser.tex |               |
|                          |                      |                | TableA4PanelB2Man.xls |               |
|                          |                      |                | TableA4PanelB2Man.tex |               |
|                          |                      |                | TableA4PanelB2Ser.xls |               |
|                          |                      |                | TableA4PanelB2Ser.tex |               |
|                          |                      |                | combinedPanelA.xls    |               |
|                          |                      |                | combinedPanelB.xls    |               |
|                          |                      |                | combinedTablefull.xls | Combines all  |
|                          |                      |                |                       | panels into 1 |
|                          |                      |                |                       | file          |
| Table A5                 | Appendix Tables.do   | 404            | TableA5.tex           | MOCK Table    |
| 10.010110                | rippenam rabiesiao   | 101            | TableA5.xls           | 110 011 14010 |
| Table A6                 | Appendix Tables.do   | 527            | TableA6.tex           | MOCK Table    |
| Tuble Ho                 | rippendix rabies.do  | 3 <b>2</b> 7   | TableA6.csv           | Modit Tubic   |
| Table A7                 | Appendix Tables.do   | 626            | TableA7.tex           | MOCK Table    |
| Tuble III                | Appendix Tables.do   | 020            | TableA7.csv           | MOGR Tubic    |
| Table A8                 | Appendix Tables.do   | 709            | TableA8.tex           | MOCK Table    |
| Tuble 110                | Appendix Tables.do   | 703            | TableA8.csv           | WOOK Tubic    |
| Table A9                 | Appendix Tables.do   | 815            | TableA9.tex           | MOCK Table    |
| Tubic 117                | Thhemaiy Tanies'00   | 013            | TableA9.csv           | MOGIX Table   |
| Table A10                | Annondia Tobles de   | 919            | TableA10.tex          | MOCK Table    |
| I able A10               | Appendix Tables.do   | 717            |                       | MOCK Lable    |
| Table A11                | Ammondier Talalaa Ja | 065            | Table A11 toy         | MOCU Table    |
| Table A11                | Appendix Tables.do   | 965            | Table A11 aggr        | MOCK Table    |
| T.1.1. A42               | A 1: m 11 1          | 1075           | TableA11.csv          | MOOREMAN      |
| Table A12                | Appendix Tables.do   | 1075           | TableA12.tex          | MOCK Table    |
|                          |                      |                | TableA12.csv          |               |

| Figure/Table<br># Object | Program                            | Line<br>number | Output file  | Notes   |
|--------------------------|------------------------------------|----------------|--|---|
| Table A13                | Appendix Tables.do                 | 1680           | TableA13p1.tex TableA13p1.csv TableA13p2.tex TableA13p2.csv                  | MOCK Table                                      |
| Table A14                | Appendix Tables.do                 | 1840           | TableA14.tex<br>TableA14.csv   | MOCK Table                                      |
| Figure A1                | Not applicable (manual-screenshot) |                |  |   |
| Figure A2                | Not applicable<br>(manual)         |                |  |   |
| Figure A3                | Appendix Figures.do                | 15             | Figure_A3.gph<br>Figure_A3.jpg   | Real Figure<br>based on<br>intermediate<br>data |
| Figure A4                | Appendix Figures.do                | 38             | Figure_A4.gph<br>Figure_A4.jpg   | Real Figure<br>based on<br>intermediate<br>data |
| Figure A5                | Appendix Figures.do                | 38             | Figure_A5.gph<br>Figure_A5.jpg   | Real Figure<br>based on<br>intermediate<br>data |
| Figure A6                | Appendix Figures.do                | 72             | Figure_A6_a.gph Figure_A6_a.jpg Figure_A6_b.gph Figure_A6_b.jpg              | Real Figure<br>based on<br>intermediate<br>data |
| Figure A7                | Appendix Figures.do                | 101            | Figure_A7_a.gph Figure_A7_a.jpg Figure_A7_b.gph Figure_A7_b.jpg              | Real Figure<br>based on<br>intermediate<br>data |
| Figure A8                | Appendix Figures.do                | 118            | Figure_A8_a.gph<br>Figure_A8_a.jpg<br>Figure_A8_b.gph<br>Figure_A8_b.jpg     | Real Figure<br>based on<br>intermediate<br>data |
| Figure A9                | Appendix Figures.do                | 131            | Figure_A9_a.gph<br>Figure_A9_a.jpg<br>Figure_A9_b.gph<br>Figure_A9_b.jpg     | Real Figure<br>based on<br>intermediate<br>data |
| Figure A10               | Appendix Figures.do                | 145            | Figure_A10_a.gph<br>Figure_A10_a.jpg<br>Figure_A10_b.gph<br>Figure_A10_b.jpg | Real Figure<br>based on<br>intermediate<br>data |
| Figure A11               | Appendix Figures.do                | 160            | Figure_A11_a.gph<br>Figure_A11_a.jpg   | MOCK Figure                                     |

| Figure/Table<br># Object | Program             | Line<br>number | Output file   | Notes       |
|--------------------------|---------------------|----------------|---|-------------|
|                          |                     |                | Figure_A11_b.gph<br>Figure_A11_b.jpg  |             |
| Figure A12               | Appendix Figures.do | 207            | Figure_A12_a.gph<br>Figure_A12_a.jpg<br>Figure_A12_b.gph<br>Figure_A12_b.jpg  | MOCK Figure |
| Figure A13               | Appendix Figures.do | 251            | Figure_A13_a.gph Figure_A13_a.jpg Figure_A13_b.gph Figure_A13_b.jpg Figure_A13_c.gph Figure_A13_c.jpg Figure_A13_d.gph Figure_A13_d.jpg | MOCK Figure |

An auxiliary TEX file was created in Overleaf to visualize the tables. However, it is important to note that not all tables are produced correctly due to the limitations of the mock dataset, which includes many repeated observations. As a result, some regressions omit variables that are included in the real estimations.

The above-mentioned mock tables and figures were generated using mock data due to data restrictions. The original outputs for these exhibits are provided in the "Original results statistical office" folder.

#### References

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