

# *Business size, Development and Inequality in Latin America: a Tale of One Tail: Second submission*

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This review verifies the reproducibility of the exhibits included in the paper “*Business size, Development and Inequality in Latin America: a Tale of One Tail*”.

## **Contents in this review:**

1. Main findings
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## *Main findings*

- The code ran on a new computer after changing:
  1. the directory in line 32 of the do-file *o. Master.do*
  2. downloading the needed data frames not included in the package: United States, Costa Rica, South Korea, India, and the Dominican Republic.
  3. set varabbrev on, as some of the variables were referenced with abbreviations.
  4. making changes in data types in the Dominican Republic database, as the code directly was not working.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code three times consecutively yielded identical results.
- All exhibits showcased in the paper reproduced as detailed in the following sections.

## *Reproducibility assessment*

- Paper exhibits were attempted to be reproduced in a computer with the following specifications:
  - OS: Windows 11 Enterprise



- Processor: Intel(R) Core(TM) i5-1145G7 CPU @ 2.60GHz
  - Memory available: 15.7 GB
  - Software version: Stata version 17
  - We conducted our reproducibility analysis based on the file “*Paper\_insights\_WB.pdf*” and “*Paper\_insights\_WB Appendix.pdf*” supplied in the authors’ reproducibility package. Our validation involved comparing the results generated by the code with the exhibits in the paper to assess their consistency. It should be noted that our analysis lacks data for Europe, Australia, and Nepal, as these were not available in the package. Despite Australia and Nepal’s data being publicly accessible, we encountered difficulties in obtaining them. The link for Nepal’s data is dysfunctional, and we are still awaiting approval for access to Australian data, as they required extra information about the project.
  - For the remaining datasets not located in the *Raw microdata* folder. We followed the procedures outlined in the README file to obtain them.
- We can confirm that the paper is **reproducible** as per the PDF version shared in the replication package.

### *List of exhibits and reproducibility status*

#### **Results in the Main Section of the Paper**

- **Figure 1(a)** Results reproduced: only Latin America and United States fully produced by the code; for the rest, we used aggregated results provided by the authors.
- **Figure 1(b)** Results reproduced: only Latin America and United States fully produced by the code; for the rest, we used aggregated results provided by the authors.
- **Figure 1(c)** Results reproduced: only Latin America and United States fully produced by the code; for the rest, we used aggregated results provided by the authors.
- **Figure 2** Reproduces: only Latin America and United States fully produced by the code; for the rest, we used aggregated results provided by the authors.
- **Figure 3** Reproduces with small differences. Countries completely replicated by code have small differences, but this could be due to rounding and a difference in seed

#### **1. Latin America Reproduces.**

2. **USA** Reproduces.
  3. **E.U. Higher Income** Reproduces using aggregated results provided by the authors.
  4. **E.U. Lower Income** Reproduces using aggregated results provided by the authors.
  5. **Asia: Higher Income** Reproduces using aggregated results provided by the authors.
  6. **India** Reproduces using aggregated results provided by the authors.
- **Table 1** Reproduces.
  - **Table 2** Reproduces.

#### Results in the Annex

- **Table A.1** Not applicable.
- **Table A.2** Reproduces.
- **Table A.3** Not applicable.
- **Figure A.1** Reproduces.
- **Figure A.2** Reproduces with small differences in panel C highlighted in the following table.

Category	Paper	Code
Self-emp, without employees	26	27
11-50	34	33