



Local Infrastructure and the Development of the Private Sector: Evidence from a Randomized Trial

Third submission: RR_MEX_2025_247

Maria Reyes Retana, Kanika Shokeen

reproducibility@worldbank.org

2025-06-12

This review verifies the reproducibility of the exhibits included in the paper "*Local Infrastructure and the Development of the Private Sector: Evidence from a Randomized Trial*".

Contents in this review:

1. Main findings
2. List of exhibits and reproducibility status
3. Reproduction Environment

Main findings

- **Every exhibit has been reproduced accurately.**
- The code was not run by the replicators due to data confidentiality. Instead, it was executed in a cold-room facility in Mexico, and the resulting outputs were provided to the replicators. Please see README file for more details on this process.
- The code takes approximately 24 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors.
- **Reproducibility Summary:**
 - **Data:** All data is restricted and has not been included in the reproducibility package. For more details, please refer to the README file.
 - **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.
 - **Outputs:** All outputs are generated by code included in the reproducibility package.
 - **Reproducibility verification:** Reviewers had access to the same materials in the public reproducibility package. The reviewers did not receive any data in the package.
 - **Dependencies environment:** The authors provided a folder with the needed commands.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1** Does not show analysis results.
- **Figure 2** Reproduced, but includes manual changes.
 1. Paid workers: Data to create the figures is in F2 Histogram.xlsx by selecting data and inserting column graph.
 2. ln(Revenue) Data to create the figures is in F2 Histogram.xlsx by selecting yAll_ingresos_act_W and yHabitat_ingresos_act_W, and inserting scatter plot.
 3. ln(Wage bill) data to create the figures is in F2 Histogram.xlsx by selecting yAll_salarios_W and yHabitat_salarios_W, and inserting scatter plot.
 4. ln(Capital stock) data to create the figures is in F2 Histogram.xlsx by selecting yAll_activos_fijos_W and yHabitat_activos_fijos_W, and inserting scatter plot.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced, but includes manual changes. The table in paper has manual changes for the order of columns and rows, numbers are reproduced.
- **Table 6** Reproduced, but includes manual changes. The table in paper has manual changes for the order of columns and rows, numbers are reproduced.
- **Table 7** Reproduced, but includes manual changes. The table in paper has manual changes for the order of columns and rows, numbers are reproduced.
- **Table 8** Reproduced.
- **Table 9** Reproduced, but includes manual changes. The table in paper has manual changes for the order of columns and rows, numbers are reproduced.
- **Table 10** Reproduced, but includes manual changes. The table in paper has manual changes for the order of columns and rows, numbers are reproduced.

Results in the Annex

For the appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits to assess the appendix. Our review was based on those 10 exhibits. Since they were chosen randomly, we are operating under the assumption that if all randomly selected exhibits are reproducible, then the rest should be as well.

- **Figure A1** Does not show analysis results.

- **Figure A2** Does not show analysis results.
- **Figure A3** Does not show analysis results.
- **Figure A4** Does not show analysis results.
- **Figure A5** Does not show analysis results.
- **Figure A6** Does not show analysis results.
- **Figure A7** Does not show analysis results.
- **Table A1** Does not apply.
- **Table A2** Reproduced.
- **Table A3** Reproduced. The exhibits were compared against the files *TA3 Balance Tables All firms.xls*, *TA3 Balance Tables Commerce and Services.xls* and *TA3 Balance Tables Manufacturing.xls*.
- **Table A4** Reproduced.
- **Table A5** Reproduced.
- **Table A6** Reproduced.
- **Table A9** Reproduced. The original data is found in *TA9 EntryExit MktAccess.xlsx*.
- **Table A10** Reproduced, but it includes manual changes. The exhibit was compared against the file *TA10 Main MktAccess*.
- **Table A11** Reproduced, but it includes manual changes. The exhibit was compared against the file *TA11 Spillovers ExitEntry MktAccess*.
- **Table A13** Reproduced, but it includes manual changes. The exhibit was compared against the file *TA13 Saturation baseline.xls*
- **Table A14** Reproduced. The exhibit was compared against the file *TA14 Polygon regs.xls* the file name is mismatching and there are manual changes.

Reproduction Environment

- Paper exhibits were 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 18 MP