



The Impact of Infrastructure on Development Outcomes: A Meta-Analysis

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This review verifies the reproducibility of the exhibits included in the paper “*The Impact of Infrastructure on Development Outcomes: A Meta-Analysis*”.

Contents in this review:

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Main findings

- The code was successfully executed on a new computer after:
 1. Installing the required packages.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 25 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors in the package.
- All the exhibits have been reproduced.
- **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 used data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package.
 - **Dependencies environment:** The reviewers created a new environment for dependencies using the latest versions available for each dependency at the moment of the review.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1** Results reproduced, but figure includes manual changes from code output. The figure was verified according to the instructions in fig1.xlsx in the data folder.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Table 1** Results reproduced, but table includes manual changes from code output. The values were compared against code output in the Stata result window. The values for the row "Environment" in the paper were a sum of the rows "Environment" and "Pollution" from the code output.
- **Table 2** Reproduced. The values were compared against code output in the Stata result window.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced. The values were compared against the row labeled "Constant" in table5.xls: Panel A (Columns B to F), Panel B (Columns G to K), Panel C (Columns L to P), Panel D (Columns Q to U), and Panel E (Columns V to Z).
- **Table 6** Reproduced. The values were compared against the row labeled "Constant" in table6.xls: Panel A (Columns B to K), and Panel B (Columns L to U).
- **Table 7** Reproduced. The values were compared against the row labeled "Constant" in table7.xls: Panel A (Columns B to F), Panel B (Columns G to K), Panel C (Columns L to P), and Panel D (Columns Q to U).

Results in the Annex

- **Figure A.1** Reproduced.
- **Figure A.2** Reproduced.
- **Table A.1** Does not apply.
- **Table A.2** Reproduced.
- **Table A.3** Reproduced.
- **Table A.4** Results reproduced, but table includes manual changes from code output. Table was compared against output of line 150 of do-file onlineappendix.do. The values for the row "Environment" in the paper were a sum of the rows "Environment" and "Pollution" from the code output. The values for the row "Ineq./Poverty" in the paper were a sum of the rows "Inequality" and "Poverty" from the code output.

- **Table A.5** Results reproduced, but table includes manual changes from code output. Table was compared against output of lines 163 to 203 of do-file onlineappendix.do. There is a rounding difference in Panel B related to the p-value of column "5 percent Sig.", where the paper states that it is 0.308 and the code output of this value is 0.3087. There is another rounding difference in the same Panel B related to the p-value of column "1 percent Sig.", where the paper states that it is 0.317 and the rounded code output of this value is 0.3179.
- **Table A.6** Results reproduced, but table includes manual changes from code output. Table was compared against output of lines 213, 216, and 219 of do-file onlineappendix.do.
- **Table A.7** Reproduced.
- **Table A.8** Reproduced. Table was compared against table5.xls (columns G to K).
- **Table A.9** Reproduced. Table was compared against table5.xls (columns L to P).
- **Table A.10** Reproduced. Table was compared against table5.xls (columns Q to U).
- **Table A.11** Reproduced. Table was compared against table5.xls (columns V to Z).
- **Table A.12** Reproduced.
- **Table A.13** Reproduced.

Reproduction Environment

- Paper exhibits were reproduced in a computer with the following specifications:
 - OS: Windows 10 Enterprise
 - Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz 2.90 GHz (2 processors)
 - Memory available: 32 GB
 - Software version: Stata version 18 MP