



The (fiscal) Dividend of Infrastructure: Roads and Revenues in Rwanda

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This review verifies the reproducibility of the exhibits included in the paper *"The (fiscal) Dividend of Infrastructure: Roads and Revenues in Rwanda"*.

Contents in this review:

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Main findings

- **Every exhibit in the main section of the paper and 10 randomly selected exhibits in the appendix were reproduced accurately**
- The code was successfully executed by the author on their computer after:
 1. Updating the working directory in line 23 of the do-file "o_Master_dofile_May2026", and running it
- The outputs were not verified for stability by the reviewers, as this package was entirely verified via virtual verification.
- The code takes approximately 4 hours to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on May 18, 2026.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 1 type of data: restricted data.
 - Reviewers verified the package via virtual verification on April 21, 2026, as they did not have access to the restricted data. The reproducibility package contains log files that record the start and end times of running the do-files and the generated output files.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**
 - **Data:** All data is restricted and has not been included in the reproducibility package. For more details, 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.
- **Dependencies environment:** The reviewers created a new environment using the latest versions of dependencies available at the moment of the review.

List of exhibits and reproducibility status

Results in the Main Section of the Paper

- **Figure 1** Reproduced.
- **Figure 2a** Reproduced
- **Figure 2b** Reproduced
- **Figure 2c** Reproduced.
- **Figure 2d** Reproduced
- **Figure 3a** Reproduced.
- **Figure 3b** Reproduced
- **Figure 3c** Reproduced.
- **Figure 3d** Reproduced

Results in the Annex

For the Appendix, we did not review every exhibit. Instead, we randomly selected 10 exhibits from the remaining datasets 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. The seed used to generate the random selection was 556550, the Stata version used was 19.5 MP, and the exhibits selected were: A2a, A3, A4c, A5b, A7c, A9d, A9f, A9g, A9h, A10

- **Figure A2a** Reproduced.
- **Figure A3** Reproduced.
- **Figure A4c** Reproduced
- **Figure A5b** Reproduced.
- **Figure A7c** Reproduced.
- **Figure A9d** Reproduced
- **Figure A9f** Reproduced
- **Figure A9g** Reproduced.
- **Figure A9h** Reproduced
- **Figure A10** Reproduced.

Reproduction Environment

Paper exhibits were reproduced on a computer with the following specifications:

- OS: Windows 11 Enterprise
- Processor: Intel(R) Core(TM) Ultra 7 165U (2.10 GHz)
- Memory available: 31.5 GB
- Software version: Stata 19