



## *Transportation Infrastructure and Total Factor Productivity: Development Heterogeneity and Resilience under Adverse Shocks*

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This review verifies the reproducibility of the exhibits included in the paper “*Transportation Infrastructure and Total Factor Productivity: Development Heterogeneity and Resilience under Adverse Shocks*”.

### **Contents in this review:**

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

### *Main findings*

- **Every exhibit of the paper has been reproduced accurately.**
- The code was successfully executed on a new computer after:
  1. Updating the working directory in line 16 of the do-file "oo\_master", and running it.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 5 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on May 1, 2026.
- **Verification Process and Data Handling:**
  - The reproducibility package relies on 3 types of data: open, accessible and limited-access.
  - Open data is included in the public reproducibility package.
  - Reviewers used accessible and limited-access data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package.
  - Reviewers verified that the accessible data matches what was provided by the authors; results of this verification are documented in the file *comparison\_report.csv*.
  - *data\_hash\_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the accessible and limited-access data can use this file to verify that the data has not been altered.

- **Reproducibility Summary:**

- **Data:** Some data is limited-access 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**

- **Table 1** Does not apply The table does not contain analytical output.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.
- **Table 6** Reproduced.
- **Figure 1** Reproduced.
- **Figure 2** Reproduced.

**Results in the Annex**

- **Table S1** Reproduced.
- **Table S2** Reproduced.
- **Table S3** Reproduced.
- **Figure S1** Reproduced.
- **Figure S2** Reproduced.
- **Figure S3** Reproduced.

*Reproduction Environment*

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz (2.30 GHz) (2 processors)
- Memory available: 8.15 GB
- Software version: Stata 19.5 MP