



Direct and Indirect Impacts of Transport Mobility on Access to Jobs: Evidence from South Africa

Third Submission: RR_ZAF_2025_449

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This review verifies the reproducibility of the exhibits included in the paper “*Direct and Indirect Impacts of Transport Mobility on Access to Jobs: Evidence from South Africa*”.

Contents in this review:

1. Main findings
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Main findings

- **Every exhibit has been reproduced accurately.**
- The code was successfully executed in a new computer without any changes.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 10 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors via OneDrive on October 10, 2025.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 2 types of data: open and accessible (public but not included in the reproducibility package).
 - Open data is included in the public reproducibility package.
 - Reviewers used accessible 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 data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**

- **Data:** All data sources are publicly available but not all are included in the reproducibility package.
- **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** Does not Apply. The figure displays results from another report.
- **Figure 2** Reproduced.
- **Figure 3** Reproduced.
- **Figure 4** Reproduced.
- **Figure 5** Reproduced.
- **Figure 7** Reproduced.
- **Figure 8** Reproduced.
- **Figure 9** Reproduced.
- **Figure 10** Reproduced.
- **Figure 11** Reproduced.
- **Figure 12** Reproduced.
- **Figure 13** Reproduced.
- **Figure 14** Reproduced.
- **Figure 15** Reproduced.
- **Figure 16** Reproduced.
- **Figure 17** Does not Apply. The exhibit does not show data analysis results.
- **Figure 18** Does not Apply. The exhibit does not show data analysis results.
- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Figure 21** Reproduced.
- **Table 4** Reproduced.

- Table 5 Reproduced.
- Table 6 Reproduced.
- Table 7 Reproduced.
- Figure 22 Panel A Reproduced.
- Figure 22 Panel B Reproduced.
- Figure 22 Panel C Reproduced.
- Table 8 Reproduced.
- Figure 23 Reproduced.
- Figure 24 Reproduced.
- Figure 25 Reproduced.
- Figure 26 Reproduced.
- Figure 27 Reproduced.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz
- Memory available: 5.7 GB
- Software version: Stata 18.0 MP