



## *Reviewing Assessment Tools for Measuring Country Statistical Capacity*

*First Submission: RR\_WLD\_2024\_94-v01*

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This review verifies the reproducibility of the exhibits included in the paper “*Reviewing Assessment Tools for Measuring Country Statistical Capacity*”.

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

1. Main findings
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### *Main findings*

- The code was successfully executed on a new computer after:
  1. Restoring the renv environment and running the code.
- We conducted our reproducibility analysis based on the paper shared by the authors via email on March 13th.
- 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.
- All code files, from cleaning to analysis, are included in the package. However, the first portion of the code gathers data from online sources, and it is possible that, if run, the results wouldn't reproduce because these sources are not version-controlled and this overwrites existing files in the folder. This reproducibility verification was carried out, omitting this first portion of the code, which is the current set-up and as suggested in the README file. Nevertheless, we confirmed that the first portion of the code runs.
- Every exhibit has been reproduced accurately.
- **Reproducibility Summary:**
  - **Data:** All data sources are publicly available and included in the package.
  - **Code:** All code files, from cleaning to analysis, are included in the 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 package.

*List of exhibits and reproducibility status***Results in the Main Section of the Paper**

- **Table 1** Does not show analysis results.
- **Figure 1** Reproduced
- **Figure 2** Reproduced
- **Figure 3** Reproduced
- **Figure 4** Reproduced
- **Figure 5** Reproduced
- **Figure 6** Does not show analysis results.
- **Figure 7** Does not show analysis results.

**Results in the Appendix**

- **Table S1** Does not show analysis results.
- **Table S2** Does not show analysis results.
- **Table S3** Does not show analysis results.
- **Table S4** Reproduced
- **Table S5** Does not show analysis results.
- **Table S6** Reproduced
- **Table S7** Reproduced
- **Table S8** Reproduced
- **Table S9** Reproduced
- **Table S10** Reproduced
- **Table S11** Reproduced
- **Table S12** Reproduced
- **Table S13** Reproduced
- **Table S14:** Reproduced
- **Table S15** Reproduced
- **Table S16** Reproduced
- **Table S17** Reproduced

- **Table S18** Reproduced
- **Table S19** Reproduced
- **Table S20** Reproduced
- **Table S21** Reproduced

### *Reproduction Environment*

- Paper exhibits were attempted to be 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: R version 4.3