



Reproducible Research Repository

The Path Forward to Effective Reform

First Submission: RR_WLD_2025_513

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This review verifies the reproducibility of the exhibits included in the paper “*The Path Forward to Effective Reform*”.

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Main findings

- **Every exhibit in the main section of the paper has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Changing the main directory.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 1 minute to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on February 3rd.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 2 types of data: open and forthcoming.
 - Open data is included in the public reproducibility package.
 - Reviewers used forthcoming data provided directly by the authors to conduct the reproducibility verification, and this is not included in the public reproducibility package.
 - *data_hash_report.csv* lists the SHA256 hashes of all files in the Data folder to support data integrity checks. Users who acquire the forthcoming/accessible/limited-access/restricted data can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**
 - **Data:** Some data is temporarily embargoed by the authors (expected to be made public in the future).

- **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 3** Reproduced.
- **Figure 4** Reproduced.
- **Figure 5** Reproduced.
- **Figure 6** Does not apply.
- **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** Reproduced.
- **Figure 18** Reproduced.
- **Figure 19** Reproduced.
- **Figure 20** Reproduced.
- **Figure 21** Reproduced.
- **Figure 22** Reproduced.
- **Figure 23.1** Reproduced.
- **Figure 23.2** Reproduced.
- **Figure 24** Reproduced.

- **Figure 25.1** Reproduced.
- **Figure 25.2** Reproduced.
- **Figure 26** Reproduced.
- **Figure 27** Reproduced.
- **Figure 28** 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 @ 2.60GHz
- Memory available: 30 GB
- Software version: Stata 19.5 MP