



Building Human Capital Where It Matters: Homes, Neighborhoods, and Workplaces

Second Submission: FR_WLD_2026_570

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This review verifies the reproducibility of the exhibits included in the paper “*Building Human Capital Where It Matters: Homes, Neighborhoods, and Workplaces*”.

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. Recovering the renv environment by running `renv::restore()`.
 2. Setting the Stata and R executioners in the main R script.
 3. Running the main R script.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 30 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors by email on February 10th, 2026.
- Figures 3.3 and 4.3 were verified virtually during a meeting on February 11, as the data used to produce them are restricted.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 3 types of data: open, restricted and limited-access.
 - Open data is included in the public reproducibility package.
 - Reviewers used limited-access data provided directly by the authors to conduct the reproducibility verification, and this data 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 limited-access can use this file to verify that the data has not been altered.
- **Reproducibility Summary:**
 - **Data:** Some data is restricted and not 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

1. Executive Summary

- **FIGURE ES.1** Does not show analysis results.
- **FIGURE ES.2 Reproduced.** This exhibit matches with Figure 1.3 from the main text.
- **FIGURE ES.3 Reproduced.** This exhibit matches with Figure 2.3 from the main text.
- **FIGURE ES.4 Reproduced.** This exhibit matches with Figure 3.2 from the main text.
- **FIGURE ES.5 Reproduced.** This exhibit matches with Figure 4.4 from the main text.
- **FIGURE ES.6** Does not show analysis results.

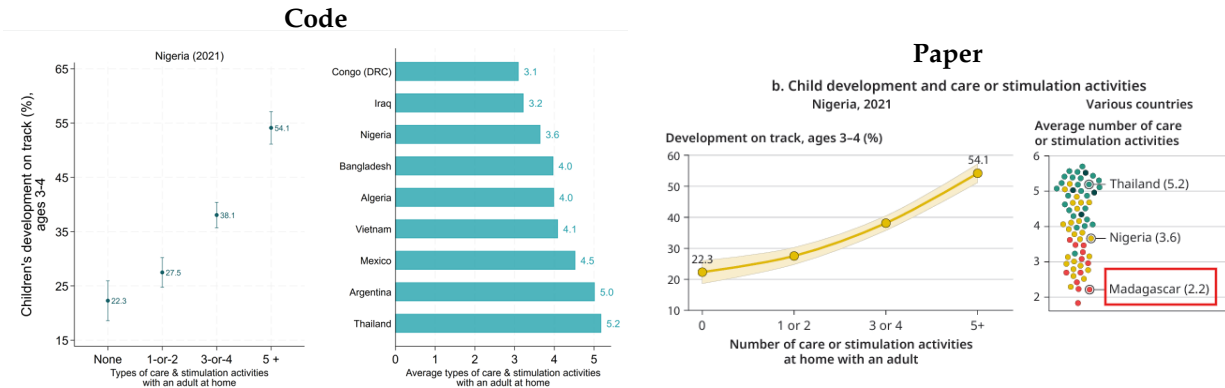
2. Chapter 1: Introduction

- **FIGURE 1.1 Reproduced.** Some formatting differences but that does not jeopardize reproducibility.
- **FIGURE 1.2 Reproduced.**
- **FIGURE 1.3 Reproduced.** Some formatting differences but that does not jeopardize reproducibility.
- **FIGURE 1.4 Reproduced.** Some formatting differences but that does not jeopardize reproducibility.
- **FIGURE 1.5 Reproduced.**

3. Chapter 2: Home

- **FIGURE 2.1** Does not show analysis results.
- **FIGURE 2.2 Reproduced.** Values match, but there was a manual modification to the figure.
- **FIGURE 2.3 Reproduced.** Some rounding differences, but that does not impact reproducibility.
- **FIGURE 2.4 Panel A Reproduced.** Values match, but the second image in Panel A reproduces as a bar graph, whereas in the manuscript, it is a dot plot.

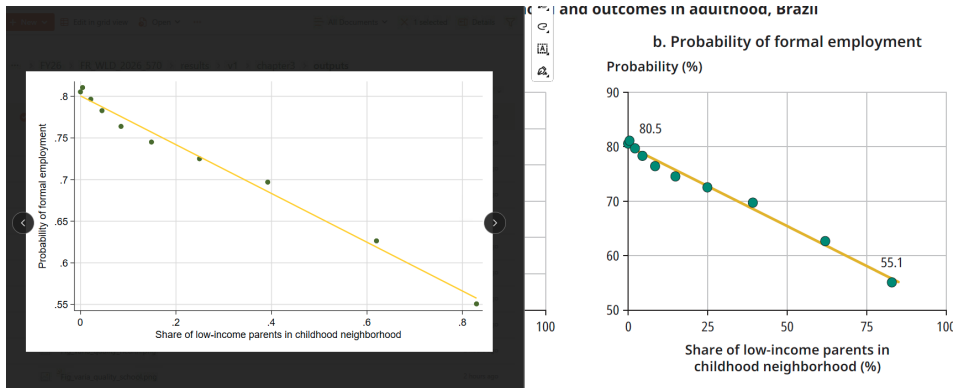
- **FIGURE 2.4 Panel B Reproduced.** The value for Madagascar is missing in the automatically generated figure, as highlighted in the graph below. All other values match the manuscript. The reproduced figure is generated as a bar chart, whereas the manuscript presents the results as a dot plot; this difference is purely visual and does not affect the underlying results or the reproducibility assessment. The value for Madagascar, as well as all other values shown in the figure, are correctly reported in the file Fig_4_PanelB_Homes_MICS_Development_Cnt.csv. Therefore, this figure is considered reproduced, with only manual editing required to include all the values.



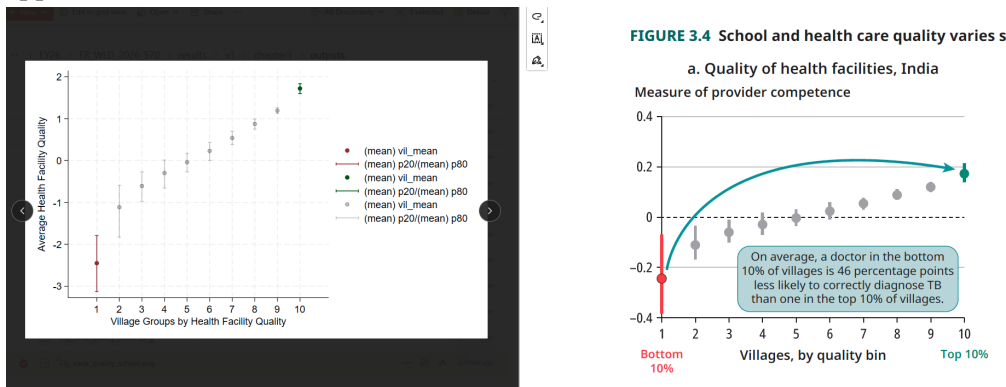
- **FIGURE 2.4 Panel C Reproduced.** Values match, but the second image in Panel C reproduces as a bar graph, whereas in the manuscript, it is a dot plot.
- **BOX 2.1 Reproduced.** Some differences in formatting, but that does not impact reproducibility.
- **FIGURE 2.5** Does not show analysis results.
- **FIGURE 2.6 Reproduced.**
- **FIGURE 2.7 Reproduced.** Panel B, C, and D are reproduced as decimal points, whereas they are in percentage form in the manuscript.
- **TABLE 2.1** Does not show analysis results.
- **TABLE 2.2** Does not show analysis results.
- **FIGURE 2.8** Does not show analysis results.

4. Chapter 3: Neighborhoods

- **FIGURE 3.1** Does not show analysis results.
- **FIGURE 3.2 Reproduced.** The scale used in Figure 3.2b is different; however, the underlying values appear to be consistent. See below.



- **FIGURE 3.3 Reproduced.** Verified against Fig_time_travel.png. Since the data is restricted, the figure was virtually verified on February 11.
- **FIGURE 3.4 Reproduced.** The scale used in Figure 3.4a is different; however, the underlying values appear to be consistent. See below.



- **FIGURE 3.5 Reproduced.** The scale used in the figure is different (similar to fig 3.4a); however, the underlying values appear to be consistent.
- **MAP 3.1** Does not show analysis results.
- **FIGURE 3.6 Reproduced.** The scale used in the figure is different (similar to fig 3.4a); however, the underlying values appear to be consistent.
- **TABLE 3.1** Does not show analysis results.

5. Chapter 4: Human Capital Accumulation at Work

- **TABLE 4.1** Does not show analysis results.
- **FIGURE 4.1** Does not show analysis results.
- **TABLE 4.2** Does not show analysis results.
- **FIGURE 4.4 Reproduced.** Verified against fig_labor_stats.png
- **FIGURE 4.3 Reproduced.** Verified against fig_ag_tfp_profiles.png. Since the data is restricted, the figure was virtually verified on February 11.
- **FIGURE 4.4 Reproduced.** The scale used in the figure is different (similar to fig 3.4a); however, the underlying values appear to be consistent.

- **FIGURE 4.5 Reproduced.** The scale used in the figure is different (similar to fig 3.4a); however, the underlying values appear to be consistent.
 - **BOX 4.2 Reproduced.** The scale used in the figure is different (similar to fig 3.4a); however, the underlying values appear to be consistent.
 - **FIGURE 4.6 Reproduced.** Format is different, but as the numbers match, this does not affect reproducibility.
 - **BOX 4.3 Reproduced.** Format is different, but as the numbers match, this does not affect reproducibility.
 - **TABLE 4.3** Does not show analysis results.
 - **TABLE 4.4** Does not show analysis results.
 - **FIGURE 4.7** Does not show analysis results.
 - **TABLE 4.5** Does not show analysis results.
 - **BOX 4.5** Does not show analysis results.
 - **TABLE 4.6** Does not show analysis results.
6. Chapter 5: What Will It Take to Implement a Settings Approach in Policy?
Chapter 5: Does not show analysis results.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: INTEL(R) XEON(R) PLATINUM 8562Y+, 2800 Mhz, 8 Core(s), 8 Logical Processor(s)
- Memory available: 122 GB
- Software version: Stata 19.5 MP, R 4.5.2