



## *Cross-Country Empirical Analysis of GovTech Platforms on Citizen Engagement*

*Fourth Submission: RR\_WLD\_2024\_97*

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This review verifies the reproducibility of the exhibits included in the paper “*Cross-Country Empirical Analysis of GovTech Platforms on Citizen Engagement*”.

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

1. Main findings
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### *Main findings*

- The code was successfully executed on a new computer after:
  1. Changing the file paths in the main do file
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 3 hours to run.
- We conducted our reproducibility analysis based on the paper shared via email by the team on August 21, 2024.
- All of the exhibits reproduced accurately.
- **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.
  - **Reproducibility verification:** Reviewers used data provided directly by the authors to conduct the reproducibility verification, and some of these (the Polity V dataset) are not included in the public reproducibility package. The reviewers did not verify if publicly available data matches the data provided by the authors.

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

- **Table 1** Does not show analysis results
- **Figure 1** Reproduced
- **Table 2** Reproduced Values for "Difference" for columns 3 and 6 were manually calculated. The table was compared against values displayed in the Stata console.
- **Table 3** Reproduced
- **Table 4** Reproduced
- **Table 5** Reproduced
- **Figure 2** Reproduced
- **Table 6** Reproduced The values for row "Civil Society Participation 2021" were compared against the results in "e\_v2x\_cspart\_5C\_21.xls", row "Civil Society Participation 2022" was compared against "e\_v2x\_cspart\_5C\_22.xls", row "Engaged Society 2021" was compared against "v2dlengage\_ord\_21.xls", and row "Engaged Society 2022" was compared against "v2dlengage\_ord\_22.xls". The values in the subpanels "Quality of the Matching" were compared against the Stata console results of do-file "PSM post\_estimation test.do".
- **Table 7** Reproduced Values for "Covariates" were manually added to the table.
- **Table 8** Reproduced
- **Table 9** Reproduced Values for "Covariates" were manually added to the table.

**Results in the Annex**

- **Annex A** Does not show analysis results
- **Annex B** Does not show analysis results

*Reproduction Environment*

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

- OS: Windows 11 Pro, version 23H2
- Processor: 11th Gen Intel(R) Core(TM) i5-1145G7 @ 2.60GHz 1.50 GHz
- Memory available: 15.7 GB
- Software version: Stata 18.0 MP