



Policy Pulse: Sensing the sentiment of climate policies in the public sphere

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This review verifies the reproducibility of the exhibits included in the paper “*Policy Pulse: Sensing the sentiment of climate policies in the public sphere*”.

Contents in this review:

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Main findings

- **Every exhibit in the main section and the annex of the paper has been reproduced accurately.**
- The code was successfully executed on a new computer after:
 1. Changing the root directory in mainStata.do.
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 2 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors in the reproducibility package.
- **Verification Process and Data Handling:**
 - The reproducibility package relies on 2 types of data: open and accessible.
 - Some 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 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. All intermediate data sets were constructed manually by the authors and included in the reproducibility package.
 - **Code:** All code files (from cleaning to analysis) are included in the reproducibility package.

- **Outputs:** Outputs that are generated by code not 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. This exhibit is not an analytical output.
- **Figure 2** Does not apply. This exhibit is not an analytical output.
- **Figure 3** Reproduced.
- **Figure 4a** Results reproduced. The figure was prepared manually in Excel.
- **Figure 4b** Results reproduced. The figure was prepared manually in Excel.
- **Figure 4c** Results reproduced. The figure was prepared manually in Excel.
- **Figure 4d** Results reproduced. The figure was prepared manually in Excel.
- **Figure 4e** Results reproduced. The figure was prepared manually in Excel.
- **Figure 4f** Results reproduced. The figure was prepared manually in Excel.
- **Figure 5** Reproduced.
- **Figure 6a** Reproduced.
- **Figure 6b** Reproduced.
- **Figure 7a** Reproduced.
- **Figure 7b** Reproduced.
- **Table 1** Reproduced.
- **Table 2** Reproduced.

Results in the Annex

- **Table A1** Reproduced.
- **Table A3.1** Reproduced.
- **Figure A2** Results reproduced. Maps were compared against raw data Data_for_PolicyPulse_Maps.xlsx.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Core(TM) Ultra 5 125U 2.30 GHz
- Memory available: 16.0 GB (15.5 GB usable)
- Software version: Stata 19.5 MP