



Who Gains from Cybersecurity Preparedness? Evidence from Sectoral Growth

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This review verifies the reproducibility of the exhibits included in the paper “*Who Gains from Cybersecurity Preparedness? Evidence from Sectoral Growth*”.

Contents in this review:

1. Main findings
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Main findings

- **Every exhibit in the main section of the paper and the appendix were reproduced accurately**
- The code was successfully executed on a new computer after:
 1. Opening the R Project "Who_Gains.Rproj"
 2. Restoring the environment by running `renv::restore()` and following the prompts.
 3. Opening the "WhoGains_clean_code_final.R" script
 4. Updating the directory on line 49, installing the required packages and running the codes"
- The output demonstrates consistent stability across multiple runs. Specifically, executing the code two times consecutively yielded identical results.
- The code takes approximately 5 minutes to run.
- We conducted our reproducibility analysis based on the paper shared by the authors .
- **Verification Process and Data Handling:**
 - The reproducibility package relies on open data).
 - Open data is 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:** All data sources are publicly available and 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

- **Table 1** Reproduced.
- **Table 2** Reproduced.
- **Table 3** Reproduced.
- **Table 4** Reproduced.
- **Table 5** Reproduced.

Results in the Annex

We reviewed every exhibit in the appendix

- **Table 6** Reproduced.
- **Table 7** Reproduced.
- **Table 8** Reproduced.

Reproduction Environment

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

- OS: Windows 11 Enterprise
- Processor: Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHz (2.30 GHz) (2 processors)
- Memory available: 16 GB
- Software version: R version 4.5.2