Documentation file for do-files and datasets corresponding to the paper titled:
"Delivering Remote Learning Using a Low-tech Solution: Evidence from a Randomized Controlled Trial in Bangladesh"
By Liang Choon Wang, Michael Vlassopoulos, Asad Islam, Hashibul Hassan

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This document describes the datasets and Stata codes used to replicate the results of the paper titled "Delivering Remote Learning Using a Low-tech Solution: Evidence from a Randomized Controlled Trial in Bangladesh" by Liang Choon Wang, Michael Vlassopoulos, Asad Islam, Hashibul Hassan.

Replication requirements

- Statistical software package: STATA 15 or above
- PC operating system: Windows 10 (64 bits) or macOS Monterey (version 12.1)
- Computation: Computational requirements are minimal. It takes around 15 minutes to complete the computation using most personal computers, except the parts that compute FWER and RI p-values. These calculations could take up to 20 hours depending on the configuration of the computer. Thus, this portion of the code is disabled by '/*' mark. Please delete this mark to execute.

Please carefully read the notes given in the do-files. Additional Stata packages needed are noted in the do-files.

Directory Structure

- Folder Name: Data

  Description: All *.dta files are stored in this folder. In the process of running the STATA codes, some additional files (*.csv, *.dta, etc.) will be generated and stored in this folder.

- Folder Name: Do files

  Description: All do files are stored in this folder. Files are segregated by exhibit numbers. All do files are independent and can be executed separately.

- Folder Name: Output

  Description: All outputs will be stored in this folder. The names of the exhibits will be the same as mentioned in the paper and appendix.

Data Files

- Name: *IVR_Data.dta*

  Description: This dataset contains all the baseline and endline variables required for replicating the main analysis reported in the paper and appendix. All variables are labeled and should be self-explanatory.

- Name: *IVR_Data_Usage.dta*

  Description: This is dataset contains the time usage data from the telecom server. All variables are labeled and should be self-explanatory.

- Name: *BIHS 18-19 (Folder)*
  Description: This folder contains secondary data collected from Harvard Dataverse (https://doi.org/10.7910/DVN/NXKLZJ). All original modules are stored in this folder. All variables are labeled and should be self-explanatory. Additional explanation can be found at the publisher's site.

Do files

- Name: *Figures 4-6.do*

  Description: This do-file contains Stata codes that generate Figures 4-6 in the paper. Note that Figures 1-3 do not require any computation.

- Name: *Figures B3-B8.do*

  Description: This do-file contains Stata codes that generate Figures B3-B8 in the Online Appendix. Note that Figures B1 and B2 do not require any computation.

- Name: *Tables 1-5.do*

  Description: This do-file contains Stata codes that generate Tables 1-5 in the paper.

- Name: *Tables B1-B12.do*

  Description: This do-file contains Stata codes that generate Tables B1-B12 in the Online Appendix of the main paper. Note that Table B13 does not require computation.

Instructions for replication

1. Download all three folders mentioned above and put all of them in a same folder.
2. Open the *Table 1-5.do* file from *Do files* folder.
3. Run/execute the entire *Table 1-5.do* file.
4. Tables in excel (*.xlsx) format will be created and stored in the output folder.
5. Apply the same process for all the other do-files.

Note on sample size mentioned in the Pre-Analysis Plan

In the Pre-Analysis Plan (PAP) of this project (https://www.socialscienceregistry.org/trials/7931), we incorrectly reported that our sample size in T1: Standard Group was 574. We inadvertently excluded one village (VILLAGE_ID = 128) from the dataset when preparing the PAP. The analysis reported in the published paper utilized the correct sample size. The analysis and conclusion reported in the final paper are robust to the exclusion of this village. For those interested in reviewing the sensitivity of our results, please open the *IVR_Data.dta* file, execute the following line of code: [drop if VILLAGE_ID == 128], save the file, and re-execute the analysis.

For any questions, please contact Hashibul Hassan (hashibulhassan@fin.jnu.ac.bd).