

The reproducibility package for the paper “**Digital Payments and the COVID-19 Shock: The Role of Pre-Existing Conditions in Banking, Infrastructure, Human Capabilities, and Digital Regulation.**”

Overview

The code in this reproducibility package constructs the resulting tables and figures used for the paper “Digital Payments and the COVID-19 Shock: The Role of Pre-Existing Conditions in Banking, Infrastructure, Human Capabilities, and Digital Regulation”.

Directory Structure

1. *Input* folder contains the raw data for the project for each indicator.
2. *Data* folder contains the intermediate data used for the analysis.
 - a. *Raw_data* subfolder stores the raw data.
 - b. *Intermediate_input* subfolder stores temporary intermediate data which is used to create the final dataset.
 - c. *Final_data* subfolder contains the final data for the analysis.
3. *Output* folder contains the all the figures and tables used in the paper.
4. *Replication Code* folder contains the following source code.
 - a. “*Building data set_2023_09.do*” creates the final dataset *db_2023_09.dta* by merging different indicators and source datasets.
 - b. *Clean.do* pre-process the intermediate dataset for the analysis step.
 - c. *Analysis.do* runs the actual analysis and produces tables and figures.

Instructions for Replicators

The package can be run from the intermediate data set by following the next steps.

1. Change the working directory in the line 29 of the main.do
2. Run the main.do in the root directory.

This will skip the data creation step in “Building data set_2023_09.do” and will execute the source code from clean.do and analysis.do.

Notes

One of the input data, *brss543_yearpanel_20190305* is not accessible as of October/2023. For this this reason, the data creation step would not run. However, users can put together the information from each round of the Bank Regulation and Supervision Survey to build the indicator used in the paper. All the other available data are stored in the input folder, and the “Building data set_2023_09.do” is available in the Replication Code folder. Please check these files to see how the final dataset *db_2023_09.dta* is created for the analysis.

Input Data Files

Summary of Availabilities

- All data is publicly available.**
- Some files cannot be made publicly available.
- No data can be made publicly available.

Data Sources

Data Name/Source	Data Files	Path	Provided	Download Instruction
World Bank Country and Lending Groups	Coun_class_2021.xlsx	Inputs/	True	<ol style="list-style-type: none">1. Download historical classification by income in XLSX format from World Bank Country and Lending Groups2. The downloaded file name is OGHIST.xlsx. Rename the file name to Coun_Class_2021.xlsx3. Keep the tab Country Analytical History.4. Keep column A (these are the country ISO 3 code) and column AJ (these are the country income group classification)5. Delete rows 1-10 and 230-2406. Write “Code” column A row 1; write “Income Group” in column B, row 1.

				7. Rename the sheet of the excel file to be "Data" from "Country Analytical History"
Global Economic Prospect, January 2020 and June 2020,	GDPpcgrowth-Jan2020-June2020.dta	Inputs/	True	The growth data is extracted from Global Economic Prospect, January 2020 and June 2020, https://www.worldbank.org/en/publication/global-economic-prospects#downloads
Global Data Regulation Diagnostic Survey Dataset 2021	Enablers.dta Safeguards.dta	Inputs/	True	Download from Global Data Regulation Diagnostic Survey Dataset 2021 (login required)
Human Development Index	HDR21-22_Composite_indices_complete_time_series.csv	Inputs/	True	Download the csv file from the link All composite indices and components time series (1990-2021) on the source Human Development Index
Global Financial Development Database	GFDD_2021.xlsx	Inputs/	True	1. Download Global Financial Development Database , November 2021 data 2. The downloaded file name is Global-Financial-Development-Database-11-1-2021.xlsx. Rename the file to GFDD_2021.xlsx. 3.
The Global Findex Database 2021	Global Findex 2021.xlsx	Inputs/	True	1. Download from excel file from The Global Findex Database 2021 2. The downloaded file name is DatabankWide.xlsx, rename it to "Global Findex 2021.xlsx" 3. From the columns A to F, remove the white spaces in the column names.
World Development Indicators - World Bank	WDI_2022.data	N/A	True	Data is fetched in the do file and saved in Inputs folder. The source is World Development Indicators
GovTech Maturity Index	GTMI_Dec2020.xlsx	Inputs/	True	1. Download December 2020 data from GovTech Dataset . 2. The downloaded data name is WBG_GovTech Dataset_Dec2020.xlsx. Rename it to GTMI_Dec2020.xlsx.
Bank Regulation and Supervision Survey	brss543_yearpanel_20190305.dta	N/A	False	The source is the Bank Regulation and Supervision Survey . The data is publicly available for each survey separately. The dta file with the time series is not accessible as of October/2023.