

# README and Guidance

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The rest of the contents of this README file is highly desirable, but not strictly needed for reproducibility. The points above are needed.

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## Overview

Begin by offering a concise overview for the replicator regarding the materials included in the package and provide a brief guide on how to proceed from start to finish. Ensure to include any crucial information that replicators should be aware of.

## Data Availability

### Data Sources

This analysis depends on two sources: Life in Transition Survey results (jointly by World Bank and EBRD). While the dataset we have used for the analysis is a version internally sourced (Life in Transition Survey IV. Version 060525), the same dataset can be found in the EBRD website available for public (<https://www.ebrd.com/home/what-we-do/office-of-the-chief-economist/lits/life-in-transition-survey-data.html>). Note that when going from the working version by the World Bank to the final publication by the EBRD, some key variables were not included but essential for our analysis, hence we had to merge with a previous version internally sourced within the World Bank to collect those specific variables (age, and gender). To access "lits4\_old.dta", use this code --> `datalibweb, country(ECA) year(2022) type(ECARAW) surveyid(ECA_2022_LITS_v01_M) filename(lits4.dta)`

The second datasource regards to the CPI index for each country. This was internally sourced from datalibweb. For access, use this code--> `datalibweb, country(Support) year(2005) type(GMDRAW) surveyid(Support_2005_CPI_V14_M) filename(Final_CPI_PPP_to_be_used.dta)`

For a supplementary figure in the paper, we use World Bank Indicator Database. Specifically: GDP per capita (current US\$) / ID: NY.GDP.PCAP.CD Source: Country official statistics, National Statistical Organizations and/or Central Banks; National Accounts data files, Organisation for Economic Co-operation and Development ( OECD ); Staff estimates, World Bank ( WB ) License: CC BY-4.0 Downloaded: 2024

## Statement about Rights

I certify that the author(s) of the manuscript have legitimate access to and permission to use the data used in this manuscript. I certify that the author(s) of the manuscript have documented permission to redistribute/publish the data contained within this replication package.

## Instructions for Replicators

New users should follow these steps to run the package successfully:

- Users must first have access to all data files if they are not included in the reproducibility package. They should go to the mentioned links, download the listed files, and place them in the data folder.
- Update the following files with your directory paths
  - `main_dofile.do`
- Ensure all required software and dependencies are installed as listed in the [Requirements](#) section.
- Run the `main_dofile.do` file.
- For Figure 1, need to run `fig_dig_skill_gdp.py` file.

## List of Exhibits

Exhibit name	Output filename	Script	Note
Table 1	sum_digital_region_full.tex	mainresults.do (line 660)	Found in Outputs/
Table 1	sum_digital_country_full.tex	mainresults.do (line 657)	Found in Outputs/
Table 2	sum_digital_var.tex	mainresults.do (line 712)	Found in Outputs/
Table 2 (fourth column)	sum_var_sample.tex	mainresults.do (line 684)	Found in Outputs/
Table 3	ame_pooled.tex	mainresults.do (line 756)	Found in Outputs/
Table 4	ame_region_predict.tex	mainresults.do (line 770)	Found in Outputs/
Table 5	ame_ict_high_region.tex	mainresults.do (line 792)	Found in Outputs/
Table 6	reg_wage_pooled_2021.tex	mainresults.do (line 834)	Found in Outputs/
Table 7	reg_wage_region_2021.tex	mainresults.do (line 848)	Found in Outputs/
Table 8	reg_het_2021.tex	mainresults.do (line 876)	Found in Outputs/
Table 9	ame_country_predict.tex	appendix.do (line 669)	Found in Outputs/
Table 10	ame_ict_high_country.tex	appendix.do (line 683)	Found in Outputs/
Table 11	reg_wage_country_2021.tex	appendix.do (line 695)	Found in Outputs/
Table 12	reg_region_hour_2021.tex	appendix.do (line 707)	Found in Outputs/
Table 13	reg_het_a1_2021.tex	appendix.do (line 716)	Found in Outputs/
Table 14	reg_het_a2_2021.tex	appendix.do (line 725)	Found in Outputs/

Exhibit name	Output filename	Script	Note
Table 15	reg_het_a3_2021.tex	appendix.do (line 734)	Found in Outputs/

Parts of Figure 1(digital\_skills\_vs\_gdp.png) and Figure 2(digital\_skills\_byage.png) was calculated manually. For Figure 1(digital\_skills\_vs\_gdp.png), data was downloaded from (<https://data.worldbank.org/indicator/NY.GDP.PCAP.CD>), then using fig\_dig\_skill\_gdp.py, generated an image. For Figure 2(digital\_skills\_byage.png), selected ict\_high and age categories from lits4.dta, downloaded and plotted through excel. Refer to code line 665 from mainresults.

## Requirements

### Computational Requirements

NA

### Software Requirements

Stata version 19.5/MP was used by one of the authors, but the code will not have any issues with lower versions.

- Required packages
  - estout
  - egenmore
  - outreg2
  - tabout

### Memory and Runtime and Storage Requirements

Runtime for the entire script is <30 minutes.

## Folder Structure

```

Data
├── lits4_old.dta
├── lits4.dta
└── Support_2021_CPI_v10_M_v01_A_GMD_CPIICP.dta

Code
├── Main_dofile.do
├── mainresults.do
├── appendix.do
└── fig_dig_skill_gdp.py

Outputs

```