How Large Are the Economic Dividends from Closing Gender Employment Gaps in the Middle East and North Africa?"

2024-01-24

This folder contains all files to replicate the results of the tables and figures of the main paper (Tables 1-2 and Figures 1-9). These require Stata 17 and Microsoft Excel.

Content

To obtain the results for this paper new users only need to configure their path in the main do file (MasterDoFileFigures.do) and run the code. This will produce both the table and the figures in the paper.

Tables and Figures

Table 1 and 2 Results

In order to get the results of Table 1 and 2:

(1) Run DoFiles/Table1&2Data.do to obtain preliminary data (uses Employment_SEX_AGE_EDU_NB_A-2023-05-15.csv, see at the end for source). This file creates the tab "Table1&2_PreliminaryData" of the Summary.xlsx spreadsheet.

(2) Get skilled shares and changes in labor using data from "Table1&2_PreliminaryData" in cells A27 to E35 of "CalculationsS&L_Table1" tab (for Table 1) and "CalculationsS&L_Table2" tab (for Table 2).

(3) Use "Table1" and "Table2" tabs to get Table 1 and Table 2 results: It contains the fixed parameters (cells A5 to B11) It uses s and L from "CalculationsS&L_Table1" and "CalculationsS&L_Table2" for the baseline and scenario calibrations of Table 1 and Table 2 (cells B16 to B23 in baseline and B28 to B35 in scenario for s; cells C16 to C23 in baseline and C28 to C35 in scenario for L, baseline L=1). It gets k (cells D16 to D23 in baseline and D28 to D35 in scenario) changing it using goal seek by setting k/ν (n+δ)-A[μ(λk^θ+(1-λ) s^θ)^(ρ/θ)+(1-μ) (1-s)^ρ]^(1/ρ) to 0 (cells E16 to E23 in baseline and E28 to E35 in scenario). It then uses fixed parameters, s, L and k to get the results on y, Y, Y_OnlyL, k_SR, y_SR, Y_SR, y_SR_onlyL, w_s, w_u whose changes between baseline and scenario are used to get Table 1 and Table 2 results (cells A40 to J48)

Figures 1 to 9

In order to get the results of figures 1 to 9:

(1) edit the path on line 10 of MasterDoFileFigures.do to the location of the ReplicationFiles directory in your computer

(2) run the code.

(3) Figures 1 to 9 will be found in the folder "Figures" in PDF format (each figure has an individual do file found in "DoFiles" that is run via the master do file).

Figures 2 to 5, 8 and 9 data are in "Summary.xlsx" ("FigureX_Data" tab contain the data used to create Figures X in Stata). Figures 1, 6 and 7 use directly raw data from "RawData" folder (see below for the list).

Figure 1 uses data from WDI (see WDI_ready.dta in sources of raw data at the end).

Figures 2 and 3 use data on GEGI (that comes from Pennings(2022), raw data is in DataGEGI_Raw, copied and pasted from ReplicationGEGI-Feb2022.xlsx, and then found in GEGI_Calculations tab for the countries we need), 2050 GDP PC Boost and labor shares used in LTGM (come from LTGM_Data tab).

Figures 4 and 5 contain year by year boost to growth data from LTGM and LTGM-NR (hardcoded)

Figure 6 contain years of schooling data from Barro-Lee (it uses BL_v3_F.dta, BL_v3_M.dta, BL_v3_MF.dta and list_regions.dta)

Figure 7 use Working-age population in each skill group and Number of employed workers in each skill group, both from ILO (see WorkingAgePop_SEX_AGE_EDU_NB_A-2023-05-15.csv and Employment_SEX_AGE_EDU_NB_A-2023-05-15.csv in sources of raw data at the end).

Figure 8 contain data from Table 1 and Table 2 Figure 9 contain data from Figures 2 and 3, Table 1 and Table 2.

Data Availability Statement

All data used in this project is public and published with the current package.

The source of the raw data (contained in "RawData" folder) is:

ReplicationGEGI-Feb2022.xlsx (downloaded May 1st 2023) contains GEGI country data from Pennings (2022) (https://thedocs.worldbank.org/en/doc/60234feb700533d51a542ef6253a1680-0050062022/original/ReplicationGEGI-Feb2022.xlsx)

WorkingAgePop_SEX_AGE_EDU_NB_A-2023-05-15.csv (downloaded May 15 2023) contains Working-age population in each skill group from ILO (ILO data can be found in https://ilostat.ilo.org/data/).

Employment_SEX_AGE_EDU_NB_A-2023-05-15.csv (downloaded May 15 2023) contains Number of employed workers in each skill group from ILO (ILO data can be found in https://ilostat.ilo.org/data/).

list_regions.dta (downloaded June 27 2023) contains World Bank regional and other classifications for each country (current classification can be found in https://datacatalogfiles.worldbank.org/ddh-published/0037712/DR0090755/CLASS.xlsx)

WDI_ready.dta contains indicators from WDI in wide format, after selecting and downloading indicators from the WDI website (https://databank.worldbank.org/source/world-development-indicators, May 2023 vintage which can be accessed in https://datatopics.worldbank.org/world-development-indicators/wdi-archives.html). The sorting of countries into regions in this do file needs the STATA dta file list_regions, which follows the World Bank region groups for 2023 downloaded from https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups.

BL_v3_F.dta (downloaded 23 December 2023) contains historical educational data by cohort for Female from Barro and Lee dataset (https://barrolee.github.io/BarroLeeDataSet/BLData/BL_v3_F.dta)

BL_v3_M.dta (downloaded 23 December 2023) contains historical educational data by cohort for Male from Barro and Lee dataset (https://barrolee.github.io/BarroLeeDataSet/BLData/BL_v3_M.dta)

BL_v3_MF.dta (downloaded 23 December 2023) contains historical educational data by cohort for Male and Female from Barro and Lee dataset (https://barrolee.github.io/BarroLeeDataSet/BLData/BL_v3_MF.dta)