

Title: Strategic Thinking Skills: A Key to Collective Economic Success

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Statement about Rights

We certify that the authors of the manuscript have legitimate access to and permission to use the data used in this manuscript.

Data Availability

This paper uses five datasets: i) Singapore Life Panel (SLP), ii) Korean Labor and Income Study (KLIPS), iii) World Value Survey (WVS), iv) World Bank Open Data, and v) Singapore Department of Statistics' Standard Occupation Classification Code (2015 version).

The KLIPS, WVS, and World Bank data are publicly available and deposited in the AEA depository, but the SLP data is not publicly accessible. The confidential SLP data can be accessed by applying for its access to the Centre for Research on Successful Ageing (ROSA) at Singapore Management University (<https://rosa.smu.edu.sg/>; rosa@smu.edu.sg). The ROSA who operates the SLP survey plans to expand its access but currently the access is mostly given to its associated researchers.

Computational Requirements

All analyses were conducted in Stata 17 except that Figures A6-A8 were produced using R 4.1.2. The entire process of data processing and analyses takes less than 2 hours on a standard desktop or laptop computer as of 2024.

To run the Stata program, “estout” package is required. It will be automatically installed (if not already installed) when “config_stata.do” is run.

Dataset List

This paper uses the following datasets.

1. Korea Labor Income Panel Study (KLI, 2018)

Korea Labor Income Panel Study (KLIPS) raw data files are located in the following replication package folder: rawdata/klips/

To download raw data from the KLIPS website, please take the following steps: i) go to the KLIPS website: https://www.kli.re.kr/klips_eng. After signing up for its membership (free of charge), click “Data Download”. Then, find Item No. 25 titled

“KLIPS 1-20th wave STATA version” and click it. Download the zipfile titled “eklips_stata_wave1-20.zip” which contains raw KLIPS data up to Wave 20.

2. World Values Survey (Ingelhardt et al., 2022)

To download the raw World Values Survey (WVS) data used in our study, please take the following steps: 1) go to the WVS website:

<https://www.worldvaluessurvey.org/>, 2) go to the data download page by clicking “Data Download” and then click “Timeseries”. 3) Download the data file titled “WVS TimeSeries 1981-2022 Stata v5 0.zip” after entering its usage purpose. Specifically, we use the following variables to run the analyses: i) D057, ii) D063.

3. World Development Indicator (World Bank, 2024)

World Bank’s per capita GDP and female labor market participation data file is found in: rawdata/worldbank/world_bank_raw.csv

The World Bank’s World Development Indicators database can be freely downloaded from its website: <https://data.worldbank.org/>

4. Singapore’s Standard Occupation Classification (DOS, 2018)

Singapore Standard Occupation Classification (2015 version) data file: rawdata/ssoc2015_skills.dta

Singapore Department of Statistics’ Standard Occupation Classification (2015 version) data can be freely downloaded from its website:

<https://www.singstat.gov.sg/standards/standards-and-classifications/ssoc>

5. Singapore Life Panel (ROSA, 2018)

The Singapore Life Panel (SLP) raw data can be accessible via the ROSA as stated above.

Replication Procedures

1. Run /dofile/CKL_master.do using STATA

- a. It will sequentially execute the following dofiles to generate outputs using i) World Bank data, ii) World Values Survey data, and iii) the KLIPS data.

- i. *config_stata.do*
- ii. *worldbank.do*
- iii. *wvs.do*
- iv. *klips_cleaning_replicate.do*

- v. *klips_analysis_replicate.do*
 - vi. *slp_cleaning_replicate.do*
 - vii. *slp_analysis_replicate.do*
 - b. Before running the master do file, adjust the working directory
- 2. Then run */dofile/FigA6_A7_A8.R* to produce the three appendix figures using R
 - a. Before running it, adjust the working directory within the R file
- 3. Note that you need to run the following three code files in the SLP data server using the SLP data
 - i. *slp_cleaning_replicate.do*
 - ii. *slp_analysis_replicate.do*
 - iii. *FigA6_A7_A8.R*

Description of Codes

1. CKL_master.do

This STATA code sets up the data environment (e.g., number of maximum variables, file paths, etc.) and sequentially runs sub-codes to clean the raw data and execute the analyses.

2. config_stata.do

This code installs STATA packages required to run the STATA programs in the replication package.

3. worldbank.do

This code reads the World Bank raw data and produces Figure A11.

4. wvs.do

This code reads the WVS raw data and produces Figure A10.

5. klips_cleaning_replicate.do

This code reads raw KLIPS data and processed them to produce the analysis data.

6. klips_analysis_replicate.do

This code reads the cleaned KLIPS data from the above process and conducts statistical analyses to produce various figures and tables specified below using the KLIPS data.

7. slp_cleaning_replicate.do

This code reads raw SLP data and processed them to produce the analysis data.

8. slp_analysis_replicate.do

This code reads the cleaned SLP data from the above process and conducts statistical analyses to produce various figures and tables specified below using the SLP data.

9. FigA6_A7_A8.R

This code produces the figure difficult to create using STATA (Figure A6, A7, and A8).

List of tables and figures produced

Figure/Table Number	Code file name	Line Number	Output file	Data source
Table 1	dofile/slp_analysis_replicate.do	41	tables/Table_1_SLP.xlsx	SLP
	dofile/klips_analysis_replicate.do	13	tables/Table_1_KLIPS.xlsx	KLIPS
Table 2	dofile/slp_analysis_replicate.do	63	tables/Table_2_SLP.xlsx	SLP
	dofile/klips_analysis_replicate.do	36	tables/Table_2_KLIPS.xlsx	KLIPS
Table 3	dofile/slp_analysis_replicate.do	86	tables/Table_3_SLP.csv	SLP
	dofile/klips_analysis_replicate.do	59	tables/Table_3_KLIPS.csv	KLIPS
Table 4	dofile/slp_analysis_replicate.do	96	tables/Table_4A.xls	SLP
		124	tables/Table_4B.xls	
Table 5	dofile/slp_analysis_replicate.do	152	tables/Table_5.xls	SLP
Table 6	dofile/slp_analysis_replicate.do	181	tables/Table_6.xls	SLP
Table 7	dofile/slp_analysis_replicate.do	204	tables/Table_7.xls	SLP
Table A1	dofile/slp_analysis_replicate.do	232	tables/Table_A1_SLP.xlsx	SLP
	dofile/klips_analysis_replicate.do	70	tables/Table_A1_KLIPS.xlsx	KLIPS
Table A2	dofile/slp_analysis_replicate.do	265	tables/Table_A2_SLP.xlsx	SLP
	dofile/klips_analysis_replicate.do	103	tables/Table_A2_KLIPS.xlsx	KLIPS
Table A3	dofile/slp_analysis_replicate.do	22	tables/Table_A3.csv	SLP
Table A4	dofile/slp_analysis_replicate.do	293	tables/Table_A4_SLP.xlsx	SLP
	dofile/klips_analysis_replicate.do	131	tables/Table_A4_KLIPS.xlsx	KLIPS
Table A5	dofile/klips_analysis_replicate.do	154	tables/Table_A5.csv	KLIPS
Table A6	dofile/slp_analysis_replicate.do	316	tables/Table_A6.xls	SLP
Table A7	dofile/slp_analysis_replicate.do	344	tables/Table_A7.xls	SLP
Table A8	dofile/slp_analysis_replicate.do	372	tables/Table_A8A.xls	SLP
		385	tables/Table_A8B.xls	
Table A9	dofile/slp_analysis_replicate.do	399	tables/Table_A9A.xls	SLP
		416	tables/Table_A9B.xls	
Table A10	dofile/slp_analysis_replicate.do	423	tables/Table_A10A.xls	SLP
		426	tables/Table_A10B.xls	
Table A11	dofile/slp_analysis_replicate.do	433	tables/Table_A11.xls	SLP
Table A12	dofile/slp_analysis_replicate.do	450	tables/Table_A12	SLP

Table A13	dofile/slp_analysis_replicate.do	517	tables/Table_A13.xls	SLP
Table A14	dofile/slp_analysis_replicate.do	543	tables/Table_A14.xls	SLP
Table A15	dofile/slp_analysis_replicate.do	566	tables/Table_A15.xls	SLP
Table A16	dofile/slp_analysis_replicate.do	597	tables/Table_A16.xls	SLP
Table A17	dofile/slp_analysis_replicate.do	620	tables/Table_A17.xls	SLP
Table A18	dofile/slp_analysis_replicate.do	643	tables/Table_A18.xls	SLP
Table A19	dofile/slp_analysis_replicate.do	660	tables/Table_A19.xls	SLP
Table A20	dofile/slp_analysis_replicate.do	689	tables/Table_A20.xls	SLP
Table A21	dofile/slp_analysis_replicate.do	785	tables/Table_A21_SLP.xlsx	SLP
	dofile/klips_analysis_replicate.do	165	tables/Table_A21_KLIPS.xlsx	KLIPS
Table A22	dofile/slp_analysis_replicate.do	809	tables/Table_A22_SLP.xlsx	SLP
	dofile/klips_analysis_replicate.do	190	tables/Table_A22_KLIPS.xlsx	KLIPS
Table A23	dofile/slp_analysis_replicate.do	786	tables/Table_A23.xls	SLP
Figure 1	dofile/slp_analysis_replicate.do	863	figures/Fig_1.png	SLP
Figure A5	dofile/slp_analysis_replicate.do	944	figures/Fig_A5A.png	SLP
		948	figures/Fig_A5B.png	
		952	figures/Fig_A5C.png	
Figure A6	dofile/FigA6_A7_A8.R	911	figures/Fig_A6.png	SLP
Figure A7	dofile/FigA6_A7_A8.R	72	figures/Fig_A7.png	SLP
Figure A8	dofile/FigA6_A7_A8.R	131	figures/Fig_A8.png	SLP
Figure A9	dofile/slp_analysis_replicate.do	1194	figures/Fig_A9.png	SLP
Figure A10	dofile/wvs.do	150	figures/Fig_A10A.png	World Values Survey
		159	figures/Fig_A10B.png	
Figure A11	dofile/worldbank.do	23	figures/F11_A11A.png	World Bank
		41	figures/F11_A11B.png	

References

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