

README for the Reproducibility Package for Counteracting the impact of societal aging on income inequality: a case study of Malaysia

Overview

The structure of the package is straightforward. The master do-file is the only file that needs to be run. See below for further instructions.

Data Availability Statement

1. World Population Prospects 2024

Source: United Nations Department of Economic and Social Affairs

Year: 2024

URL:

[https://population.un.org/wpp/assets/Excel%20Files/1_Indicator%20\(Standard\)/EXCEL_FILES/2_Population/WPP2024_POP_F06_1_POPULATION_PERCENTAGE_SELECT_AGE_GROUPS_BOTH_SEXES.xlsx](https://population.un.org/wpp/assets/Excel%20Files/1_Indicator%20(Standard)/EXCEL_FILES/2_Population/WPP2024_POP_F06_1_POPULATION_PERCENTAGE_SELECT_AGE_GROUPS_BOTH_SEXES.xlsx)

Access Date (Month-Year): October 2024

Note: The source data file is rather large. It has been converted to a Stata data file that contains only data for Malaysia for the relevant years and age categories. File location: `wpp_projections_2024.dta` in subfolder 'data'.

Access Type: Data is publicly available and included in the reproducibility package.

Selected years 2004, 2022, 2045, 2056, for age group 0-14, 15-24, 25-49, `coh_share_4` (50+-60+ 50-60), 60+, (50+-65+, 50-65), 65+, (50+-70+ 50-70), 70+.

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License URL: -

Citation: United Nations Department of Economic and Social Affairs. 2024. "World Population Prospects 2024" [dataset].

[https://population.un.org/wpp/assets/Excel%20Files/1_Indicator%20\(Standard\)/EXCEL_FILES/2_Population/WPP2024_POP_F06_1_POPULATION_PERCENTAGE_SELECT_AGE_GROUPS_BOTH_SEXES.xlsx](https://population.un.org/wpp/assets/Excel%20Files/1_Indicator%20(Standard)/EXCEL_FILES/2_Population/WPP2024_POP_F06_1_POPULATION_PERCENTAGE_SELECT_AGE_GROUPS_BOTH_SEXES.xlsx)

2. Household Income and Expenditure Survey (HIES) 2004-2022

Source: Department of Statistics Malaysia (DOSM)

Year: 2004, 2007, 2009, 2012, 2014, 2016, 2019, 2022

URL: -

Access Date (Month-Year): October 2023

Note: Data have been processed from source data files provided by DOSM and were accessed in three waves: 2004-2016, and 2019 and 2022 separately. Processing consisted of: 1) harmonisation of variables through recoding and reconstruction; 2) generation of dummy variables for household and individual characteristics; 3) construction of a spatial price index (see Rongen and Lanjouw (2024) for further details); and 4) generation of aggregated income, social assistance and pension variables. Access is restricted and was obtained through a formal agreement between DOSM and the World Bank; redistribution is not permitted. A complete list of the variables and variable labels is included in the package "Data_Dictionary.xlsx".

Access Type: Data access was granted directly to the study authors by the data owners/managers under a custom license that does not allow redistribution (not included in the reproducibility package).

Variables:

License: -

License URL: -

Citation: -

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.

Instructions for Replicators

The package contains a master do-file named 'wb_rep_aging_master' in the subfolder 'code', which is the only do-file that needs to be run. In the master file, users need to specify the root directory, other folders will be

generated automatically. User-written Stata programs have been installed in an ado subfolder, the location of which is set in the master do-file. Make sure that the data subfolder contains the datasets wpp_projections_2024.dta and HIS_ID_2004_2022.dta.

Computational Requirements and Runtime

Software has been run in Microsoft Windows 11 Enterprise. Runtime is around 7 hours

Software Requirements

Stata 16.1

List of Exhibits

File names of figures follow the numbering in the manuscript and are saved in the subfolder ‘output/figures’. All tables are exported to separate sheets in the the Excel file ‘tables_aging’, in the subfolder ‘output’. The sheet name indicates the number of the table in the manuscript.

Reference

Rongen, G. and P. Lanjouw (2024). The Only Way Is Up?: Economic Mobility in Malaysia in the 21st Century. Policy Research Working Paper 10991. World Bank, Washington DC