README for the Reproducibility Package for

Pathways to Prosperity for Adolescent Girls in Africa

Reproduction Instructions

- 1. Get access to the data not included in the reproducibility package. See the tab le below for details.
- 2. Add the global path in the dofiles:
 - a. Introduction/Figurel.1.do
 - b. Chapter 2/Replication Chapter 2/Macros.do
 - c. Spotlight 2/main.do
- 3. Add the main path in the R scripts:
 - a. Chapter 2/Replication Chapter 2/Code/Graph Creation/ Bubble Graph.R
 - b. Chapter 2/Replication Chapter 2/Code/Graph Creation/Mics visualization.R
 - c. Chapter 2/Replication Chapter 2/Code/Graph Creation/ Old_new_transition_graph.R
- 4. Run the do-files and R scripts in this order:
 - a. Introduction/Figurel.1.do
 - b. Chapter 2/Replication Chapter 2/Master.do
 - c. Chapter 2/Replication Chapter 2/Code/Graph Creation/ Bubble Graph.R
 - d. Chapter 2/Replication Chapter 2/Code/Graph Creation/Mics_visualization.R
 - e. Chapter 2/Replication Chapter 2/Code/Graph Creation/ Old_new_transition_graph.R
 - f. Spotlight 2/main.do
- 5. Map 2.1a, 2.1b, and 2.1c should be reproduced in QGIS with code results.
 - a. Map 2.1a:
 - i. Convert the file 10-14_school.dta to a comma-separated values (CSV) file and load it into QGIS as a non-geographic layer.
 - ii. Load the shapefile admins2_dhs.shp as a layer in QGIS
 - iii. Merge both layers with the attributes "tests" and "merge_var"
 - iv. Produce a choropleth map with the variable "an_sch" using the bins 0-20, 20-40, 40-60, 60-80, and 80+
 - b. Map 2.1b:
 - i. Convert the file 10maps_data.dta to a comma-separated values (CSV) file and load it into QGIS as a non-geographic layer.
 - ii. Load the shapefile admins2_dhs.shp as a layer in QGIS
 - iii. Merge both layers with the attributes "tests" and "merge_var"
 - iv. Produce a choropleth map with the variable "isnwt_ncnm" using the bins 0-10, 10-20, 20-40, 40-60, and 60+
 - c. Map 2.1c:
 - Convert the file 10maps_data.dta to a comma-separated values (CSV) file and load it into QGIS as a non-geographic layer.
 - ii. Load the shapefile admins2_dhs.shp as a layer in QGIS
 - iii. Merge both layers with the attributes "tests" and "merge_var"
 - iv. Produce a choropleth map with the variable "niswt_cm" using the bins 0-10, 10-20, 20-40, 40-60

Data Availability Statement

Dataset	Availability	Located at	Comments
United Nations –	Included in the	- Introduction/WPP2024_POP	Download URLs:
World Population	reproducibility	_F02_3_POPULATION_5-	https://population.un.org/
Prospects	package	YEAR_AGE_GROUPS_FEMAL	wpp/Download/Files/1_In
•		E.xlsx	dicator%20(Standard)/EX
		- "Chapter 2/Replication	CEL_FILES/2_Population/
		Chapter 2/Data/Additional	WPP2024 POP F02 3 P
		Data/popudata.dta"	OPULATION_5-
		r p p p	YEAR AGE GROUPS FEM
			ALE.xlsx
			https://population.un.org/
			wpp/Download/Files/1_In
			dicator%20(Standard)/EX
			CEL_FILES/2_Population/
			WPP2024 POP F01 2 P
			OPULATION SINGLE AGE
			_MALE.xlsx
			For "popudata.dta", data
			from the download URLs
			was filtered by country
			and year, aggregated by
			age groups 15-49 for
			women, and aggregated
			for all ages for men.
World Bank	Included in the	Spotlight 2/Data/raw/ PPP LCU	Data was manually
Development	reproducibility	Conversion.xls	filtered for selected
Indicators –	package		countries and years (see
Indicator: PPP			countries and years in the
conversion factor,			data file).
GDP (LCU per			
international \$)			
Adolescent Girls	Included in the	Spotlight 2/Data/raw/AGIK/	We used the data version
<u>Initiative – Kenya</u>	reproducibility	- R1R2R3_NBO_public_Feb20	sent to us via email by the
(AGI-K)	package	21.dta	authors. There might be
		- R1R2R3_WAJ_public_Feb20	discrepancies with the
		21.dta	version publicly available
			due to data updates.
Adolescent Girls	Data is not included	Spotlight 2/Data/raw/AGEP/AGEPR4/	We used the data version
Empowerment	in the reproducibility	- AGEP_Round4.dta	sent to us via email by the
Program (AGEP)	package.	- AGEP_Sample.dta	authors. There might be
Round 4	Data is accessible		discrepancies with the
	upon approval on		version publicly available
	the data URL		due to data updates.
Sahel Women	Data for Burkina	Spotlight 2/Data/raw/SWEDD/	We used the data version
Empowerment and	Faso, Côte d'Ivoire,	BLSWEDDado(en).dta	sent to us via email by the
Demographic	and Niger are		authors. There might be
Dividend Initiative	publicly available in		discrepancies with the
(SWEDD) –	their data URLs but		version publicly available

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Burkina Faso, Côte d'Ivoire, Mali, Niger, Mauritania, Chad	cannot be redistributed. Data for Niger, Mauritania, and Chad are forthcoming in the Microdata Library		due to data updates. The data we received was household data appended for all countries in the Stata data file. "BLSWEDDado(en).dta" can be recreated by appending all HH data files in each data URL
			once all country data are
Sahel Women	Data is forthcoming	Spotlight 2/Data/raw/SWEDD	available. We used the data version
Empowerment and Demographic Dividend Initiative (SWEDD) – Cash Transfers Benin	in the World Bank Microdata Library	Benin/CCT/ - ADO_Volet_2_clean.dta - INDIVIDU_Volet_2_clean.dta - MENAGE_Volet_2_clean.dta - MERE_Volet_2_clean.dta	sent to us via email by the authors. There might be discrepancies with the version publicly available due to data updates.
Sahel Women Empowerment and Demographic Dividend Initiative (SWEDD) – Safe Spaces Benin	Data is forthcoming in the World Bank Microdata Library	Spotlight 2/Data/raw/SWEDD Benin/Safespaces/ - ADO_Volet_1_clean.dta - GAR_Volet_1_clean.dta - INDIVIDU_Volet_1_clean.dta - MENAGE_Volet_1_clean.dta	We used the data version sent to us via email by the authors. There might be discrepancies with the version publicly available due to data updates.
Adolescent Girls Initiative for Learning and Empowerment (AGILE) – Nigeria	Data is publicly available in the data URL but cannot be redistributed	Spotlight 2/Data/raw/Agile/ - Adolescent Survey_June 16 2023.dta - School Survey_June 16 2023.dta	We used the data version sent to us via email by the authors. There might be discrepancies with the version publicly available due to data updates.
Promoting Safe Sex among Adolescents in Tanzania (PASS)	Data is forthcoming in the World Bank Microdata Library	Spotlight 2/Data/raw/TZ_Safe/TZ_PASS- Baseline_ee.dta	We used the data version sent to us via email by the authors. There might be discrepancies with the version publicly available due to data updates.
UNICEF - Multiple Indicator Cluster Survey (MICS)	Data is publicly available in the data URL but cannot be redistributed. Account creation is required.	Chapter 2/Replication Chapter 2/Data/MICS/ - MICS/CD.dta - MICS/CR.dta - MICS/GB.dta - MICS/GH.dta - MICS/GM.dta - MICS/LS.dta - MICS/MD.dta - MICS/MW.dta - MICS/NG.dta - MICS/ST.dta - MICS/ST.dta - MICS/ST.dta - MICS/TC.dta - MICS/TG.dta - MICS/TG.dta - MICS/TG.dta - MICS/ZW.dta - MICS/ZW.dta	Data was downloaded from the Data URL by selecting the corresponding MICS round and country. - Files in "MICS" correspond to MICS 6 and files "fs.sav" - "MICS 3", "MICS 4", "MICS 5" correspond to "hl.sav" and their corresponding rounds - "MICS HH" corresponds to

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		- MICS 3/BU.dta	MICS 5 and the
		- MICS 3/MZ.dta	files "hh.sav"
		- MICS 3/SM.dta	The files were exported to
		- MICS 4/SS.dta	Stata, renamed to their
		- MICS 5/BJ.dta	ISO-2 country code, and
		- MICS 5/CG.dta	copied in the
		- MICS 5/CI.dta	corresponding MICS
		- MICS 5/CM.dta	round folder in the data
		- MICS 5/GN.dta	location.
		- MICS 5/ML.dta	
		- MICS 5/MR.dta	
		- MICS 5/SZ.dta	
		- MICS HH/BJ.dta	
		- MICS HH/CG.dta	
		- MICS HH/CI.dta	
		- MICS HH/CM.dta	
		- MICS HH/GN.dta	
		- MICS HH/ML.dta	
		- MICS HH/MR.dta	
		- MICS HH/SZ.dta	
USAID - The DHS	Data is publicly	Chapter 2/Replication Chapter	Data was downloaded
	available in the data	2/Data/DHS/	
<u>Program</u>	URL but cannot be	- DHS HH/AO.dta	from the Data URL by
			selecting the
	redistributed.	- DHS HH/BF.dta	corresponding country
	Account creation is	- DHS HH/BJ.dta	and year. The years are
	required.	- DHS HH/BU.dta	specific to each country,
		- DHS HH/CD.dta	they are specified in
		- DHS HH/CG.dta	pages 89-91 of the book
		- DHS HH/Cl.dta	and in the file "Chapter
		- DHS HH/CM.dta	2/Replication Chapter
		- DHS HH/ET.dta	2/Data/Additional
		- DHS HH/GA.dta	Data/Data
		- DHS HH/GH.dta	documentation.xlsx". The
		- DHS HH/GM.dta	type of data downloaded
		- DHS HH/GN.dta	are Survey Datasets and
		- DHS HH/KE.dta	Standard DHS. Women
		- DHS HH/KM.dta	data come from the files
		- DHS HH/LB.dta	in "Individual Recode",
		- DHS HH/LS.dta	Men data come from
		- DHS HH/MD.dta	"Men's recode", and HH
		- DHS HH/ML.dta	data come from
		- DHS HH/MR.dta	"Household Recode".
		- DHS HH/MW.dta	Files were downloaded in
		- DHS HH/MZ.dta	Stata format, renamed to
		- DHS HH/NG.dta	their corresponding ISO-2
		- DHS HH/NI.dta	country code, and copied
		- DHS HH/NM.dta	in their corresponding
		- DHS HH/RW.dta	data location.
		- DHS HH/SL.dta	
		- DHS HH/SN.dta	Geographic data was also
		- DHS HH/ST.dta	obtained from this source
		- DHS HH/SZ.dta	for each country. Admin-2
		- DHS HH/TD.dta	country polygons were
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- DHS HH/TG.dta	added in a single layer
- DHS HH/TZ.dta	and saved in the file
- DHS HH/UG.dta	"admin2_dhs.shp".
- DHS HH/ZA.dta	
- DHS HH/ZM.dta	
- DHS HH/ZW.dta	
- DHS Men/AO.dta	
- DHS Men/BF.dta	
- DHS Men/BJ.dta	
- DHS Men/BU.dta	
- DHS Men/CD.dta	
- DHS Men/CG.dta	
- DHS Men/Cl.dta	
- DHS Men/CM.dta	
- DHS Men/ET.dta	
- DHS Men/GA.dta	
- DHS Men/GH.dta	
- DHS Men/GM.dta	
- DHS Men/GN.dta	
- DHS Men/KE.dta	
- DHS Men/KM.dta	
- DHS Men/LB.dta	
- DHS Men/LS.dta	
- DHS Men/MD.dta	
- DHS Men/ML.dta	
- DHS Men/MR.dta	
- DHS Men/MW.dta	
- DHS Men/MZ.dta	
- DHS Men/NG.dta	
- DHS Men/NI.dta	
- DHS Men/NM.dta	
- DHS Men/RW.dta	
- DHS Men/SL.dta	
- DHS Men/SN.dta	
- DHS Men/ST.dta	
- DHS Men/SZ.dta	
- DHS Men/TD.dta	
- DHS Men/TG.dta	
- DHS Men/TZ.dta	
- DHS Men/UG.dta	
- DHS Men/ZA.dta	
- DHS Men/ZM.dta	
- DHS Men/ZW.dta	
- DHS Women/AO.dta	
- DHS Women/BF.dta	
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- DHS Women/TD.dta
- DHS Women/TG.dta
- DHS Women/TZ.dta
- DHS Women/UG.dta
- DHS Women/ZA.dta
- DHS Women/ZM.dta
- DHS Women/ZW.dta
Chapter 2/Replication Chapter
2/Data/DHS Old/
- DHS HH/BF.dta
- DHS HH/BJ.dta
- DHS HH/Cl.dta
- DHS HH/CM.dta
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- DHS HH/E1.dta - DHS HH/GA.dta
- DHS HH/GH.dta
- DHS HH/GN.dta - DHS HH/KE.dta
- UDSDD/KEOIA
- DHS HH/KM.dta
- DHS HH/KM.dta - DHS HH/LB.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta - DHS HH/MZ.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta - DHS HH/MZ.dta - DHS HH/MZ.dta - DHS HH/NG.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta - DHS HH/MZ.dta - DHS HH/MZ.dta - DHS HH/NG.dta - DHS HH/NG.dta
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- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta - DHS HH/MZ.dta - DHS HH/NG.dta - DHS HH/NG.dta - DHS HH/NG.dta - DHS HH/NI.dta - DHS HH/NI.dta - DHS HH/NM.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta - DHS HH/MZ.dta - DHS HH/NG.dta - DHS HH/NG.dta - DHS HH/NI.dta - DHS HH/NM.dta - DHS HH/NM.dta - DHS HH/RW.dta - DHS HH/RW.dta - DHS HH/RW.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta - DHS HH/MZ.dta - DHS HH/NG.dta - DHS HH/NG.dta - DHS HH/NI.dta - DHS HH/NI.dta - DHS HH/NM.dta - DHS HH/RW.dta - DHS HH/RW.dta - DHS HH/SL.dta - DHS HH/SL.dta - DHS HH/TD.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta - DHS HH/MZ.dta - DHS HH/NG.dta - DHS HH/NG.dta - DHS HH/NI.dta - DHS HH/NM.dta - DHS HH/RW.dta - DHS HH/RW.dta - DHS HH/SL.dta - DHS HH/TD.dta - DHS HH/TD.dta - DHS HH/TG.dta
- DHS HH/KM.dta - DHS HH/LB.dta - DHS HH/LS.dta - DHS HH/MD.dta - DHS HH/ML.dta - DHS HH/MW.dta - DHS HH/MZ.dta - DHS HH/NG.dta - DHS HH/NG.dta - DHS HH/NI.dta - DHS HH/NI.dta - DHS HH/NM.dta - DHS HH/RW.dta - DHS HH/RW.dta - DHS HH/SL.dta - DHS HH/SL.dta - DHS HH/TD.dta

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		- DHS HH/UG.dta - DHS HH/ZA.dta - DHS HH/ZW.dta - DHS Women/BF.dta - DHS Women/BJ.dta - DHS Women/CI.dta - DHS Women/CM.dta - DHS Women/ET.dta - DHS Women/GA.dta - DHS Women/GH.dta - DHS Women/KE.dta - DHS Women/KE.dta - DHS Women/KE.dta - DHS Women/LB.dta - DHS Women/LB.dta - DHS Women/LB.dta - DHS Women/MD.dta - DHS Women/MD.dta - DHS Women/ML.dta - DHS Women/ML.dta - DHS Women/MS.dta - DHS Women/MS.dta - DHS Women/MS.dta - DHS Women/MS.dta - DHS Women/NG.dta - DHS Women/NG.dta - DHS Women/NI.dta - DHS Women/NI.dta - DHS Women/TD.dta - DHS Women/TD.dta - DHS Women/TD.dta - DHS Women/TG.dta - DHS Women/TG.dta - DHS Women/TG.dta - DHS Women/TG.dta - DHS Women/ZA.dta - DHS Women/ZA.dta - DHS Women/ZM.dta	
World Bank - Women, Business and the Law 1.0 Data for 1971-2024	Included in the reproducibility package	same name) Chapter 2/Replication Chapter 2/Data/Additional Data/country_laws.dta	Data was filtered by countries for the year 2020including these indicators: - Can a woman get a job in the same way as a man? - Does the law mandate equal remuneration for work of equal value? - Is paid leave of at least 14 weeks available to mothers?

World Bank - Global Financial Inclusion (Global Findex) Database 2017	Data is publicly available in the data URL but cannot be redistributed. Account creation is required. Included in the	Chapter 2/Replication Chapter 2/Data/Findex/micro_world.dta	- Does the law prohibit discrimination in access to credit based on gender? - Can a woman open a bank account in the same way as a man? - Do sons and daughters have equal rights to inherit assets from their parents? - Can a woman get passport in the same way as a man?
Prediction and Applications Centre - Africa - Admin Level 2	reproducibility package	Chapter 2/Replication Chapter 2/Data/Shapefiles/Africa_adm2.shp (and associated files with the same name)	Data was renamed to "africa_adm2.shp"