

The enclosed data and code replicate all tables and graphs in “*The trade-growth nexus: Evidence of causality from innovative instruments for trade*” by **Ibrahim Nana; Sephooko Ignatius Motelle** and **Susan K. Starnes**. Please cite this paper if you use this code.

1) Data sources and variables

The paper uses five main data sources, all of which are publicly available:

- The world Bank World Development Indicators (WDI): <https://databank.worldbank.org/source/world-development-indicators>
- The IMF Direction of trade statistics: <https://data.imf.org/?sk=9d6028d4f14a464ca2f259b2cd424b85>
- The CEPII gravity and geography databases: http://www.cepii.fr/CEPII/fr/bdd_modele/bdd_modele_item.asp?id=8
- UNCOMTRADE database: <https://comtradeplus.un.org/>
- Polity databases on institutional quality: <https://www.systemicpeace.org/inscrdata.html> (this data is public but not redistributable and it is not included in the public reproducibility package)

Additional databases, such as the income level classification of countries, continents, and crude oil exporters, come from other databases, including Our World in Data, the CIA, and the World Bank, as described in the table below:

The reproducibility package contains the following raw data:

Table 1: Data description and sources.

Name of the Database	Variables description (Yearly data)	Sources
Gravity_V202211.dta	Gravity model data with trade data from multiple sources.	CEPII Gravity
Trade2018.dta	Bilateral trade data from UNCOMTRADE	UNCOMTRADE
GDPCSUS2018.dta	GDP Constant US\$ from the World Bank WDI	WDI
dist_cepii.dta	Distance data	CEPII Distance
TradeWBG.dta	Trade (% GDP); Trade in US\$; Exports of Goods and Services in US\$; Exports of Goods and Services (% GDP); Imports of Goods and Services in US\$; Imports of Goods and Services (% GDP)	WDI
TradeIMF.dta	Trade, Exports and Imports all in US\$	IMF DOTS
DataWDI.xlsx	Raw data were downloaded from WDI. The database includes the following variables: Trade (% GDP); Exports of Goods and Services in US\$; Exports of Goods and Services (% GDP); Imports of Goods and Services in US\$; Imports of Goods and Services (% GDP); School enrollment, secondary (% gross); Gross Fixed Capital Formation (% of GDP); Consumer Price Index (2010 =	WDI

	100); Air Transport Freight Capacity (million ton-km); GDP in US\$; GDP per capita in US\$.	
CLASS.dta	World Bank Country and Lending Groups	WBG
Data_Air_transport2.dta	Air transport freight capacity.	WDI
oilexporterscia.dta	Crude oil exporters (1 if the country is a crude oil exporter and 0 otherwise). The data come from the CIA database and positive values of crude oil exports have been replaced by 1.	CIA
WorldTrade.dta	Data from WDI. When downloading select only World in the list of countries.	WDI
Continent.dta	The database links Countries (Country Codes) with continents.	Our World in Data
Continentnode	The database links Countries (Country Codes) with continents with renamed labels for future merges.	Our World in Data
Income.dta	Income level from the IMF classification.	IMF
Polity4.dta	Polity data provide information on democratic and autocratic countries. The data are obtained from the Center for Systemic Peace website. The dataset is not redistributable and was not included in the public reproducibility package.	Polity

Some additional variables / databases (instrumental variables) were created during the process and stored in the folder Output\Data. For more details about the construction of the instrumental variables, please refer to the manuscript and the *dofile* named “*Instruments.do*”. For further details and questions, please do not hesitate to contact the authors. The next section explains how to run the main *dofile* and get all the results in the manuscript.

2) Description of programs and codes

The program contains 3 *dofiles* and 15 datasets. While the authors used STATA 17 for their estimates, older versions of STATA may provide similar results. After extracting the reproducibility package from the compressed file, follow the instructions below:

- 1- Open the folder "Dofiles" and open the *dofile* named "**Maindofile.do**".
2. Change the working directory to the place you saved the folders.
- 3- Make sure to keep the folders and file names unchanged.
- 4- Run the *dofile* "**Maindofile.do**". It will automatically launch all the *do-files*.
- 5- The results are stored in the folder Output.

Instruments.do uses the following datasets: *Gravity_V202211.dta*; *dist_cepil.dta*; *Data_Air_transport2.dta* and *TradeWBG.dta*.

Data.do uses the following datasets: *DataWDI.xlsx*; *CLASS.dta*; *oilexporterscia.dta*; *WorldTrade.dta*; *Continent.dta*; *Income.dta*; and *Polity4.dta*.

Maindofile.do launches the dofiles “*Instruments.do*” and “*Data.do*”, uses the datasets *TradeWBG.dta*; *TradeIMF.dta* to compute some charts (Figure 1 and Figure A1), and generates all the Tables and Figures included in the paper. The output tables and figures contain the following elements:

Table 2: Tables and Figures generated.

Tables	Figures
Table 2; Table 3; Table 4; Table A1; Table A2; Table A3; Table A4; Table A8; Table A9; Table A10; Table A11; Table A12; Table A13; Table A14; Table A15;	Figure 1 (Figure1A and Figure1B); Figure2 (Figure2A and Figure2B); FigureA1; FigureA2; FigureA3; FigureA4

3) The following tables require copying results from the Stata console to be fully reproduced.

- **Table 4:** The coefficients of “*Long Term log Adj Trade*” in the manuscript are stored in “*BetaLong*” in the raw output table. The standard errors are obtained through lines 275, 280, and 285.
- **Table A5** is a copied result of table 2 with additional information from the IV regressions’ outputs (run lines 221 and 223 to obtain the additional information added)
- **Table A6** is a copied result of table 3 with additional information from the IV regressions’ outputs (run lines 232 and 234 to obtain the additional information added)
- **Table A7** is a reorganization of all IV regressions’ results (lines 221, 223, 232 and 234)
- **Table A15:** The coefficients of “*Long Term log Adj Trade*” in the manuscript are stored in “*BetaLong*” in the raw output table. The standard errors are obtained through lines 358, 365, 373 and 379.

The execution time should be approximately 40 minutes or less.