Replication files for:

Growth, Structural Transformation and Carbon Emissions
By Alen Mulabdic, Gaurav Nayyar, and Katherine Stapleton

List of data and programs

Before running the do files below, please install the following user-written Stata commands: *gtools*, *kountry*, *outreg2*, *reghdfe,* and *wbopendata*.

The replication folder includes the following dataset in the *"Data"* subfolder:

TIM_2021_28102022203824270.xlsx: Contains data on employment, employee compensation, value added per person, and the compensation share of value added from the OECD Trade in Employment (TiM) database (2021). Link: https://www.oecd.org/en/data/datasets/trade-in-employment.html (last accessed December 2022)

TIVA_2021_C1_28102022204502319.xlsx: Contains data on value added, gross output, and exports from the OECD Trade in Value-Added (TiVA) database (2021). Link: https://www.oecd.org/en/topics/sub-issues/trade-in-value-added.html (last accessed December 2022)

_CO2_Emissions_Emission_Intensities_and_Emission_Multipliers.xlsx: Contains data on CO_2 emission intensities and multipliers from the IMF. Link: https://climatedata.imf.org/datasets/7cec1228bfbe4a5e876ca5a5abedd64f_0/about (last accessed December 2022)

gdp.dta: Contains GDP per capita data from the World Development Indicators (WDI), downloaded using the Stata wbopendata command. Link: https://data.worldbank.org/indicator/NY.GDP.PCAP.CD (last accessed July 2025)

Prospects_database.dta: Contains data on productivity and value added from the World Bank's Global Productivity Database. Link: https://www.worldbank.org/en/research/publication/global-productivity (last accessed December 2022)

co2-intensity.zip: Contains CO_2 intensity data from Our World in Data. Link: https://ourworldindata.org/grapher/co2-intensity (last accessed December 2022)

Statistical Review of World Energy Data.xlsx: Contains data on primary energy consumption per capita from the Energy Institute. Link: https://www.energyinst.org/statistical-review/resources-and-data-downloads (last accessed December 2022)

OGHIST.xlsx: Contains historical country income-level classifications from the World Bank. Link: https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups (last accessed June 2023)

PG_classifications.xlsx: Contains Prospects Group (GEP) country classifications from the World Bank; this is an internal Prospects Group Excel file included in the data folder. (last updated December 2022)

Aggregate_sectors.xlsx: Manually created file used only for aggregating TiVA and TiM sectoral data.

The replication folder also includes the following do files in the *"Do files"* subfolder, which are needed to replicate all the figures and tables included in the paper.

 The do files should be run in the following order:

1_Data.do:

- Constructs the main datasets.

2_Figures.do:

- Produces Figures 1, 2, 3, 4, 5, and 6.

3_Regressions.do:

- Produces Tables 1, 2, 3, 4, 7, and 8.

4_Regressions_convergence.do:

- Produces Table 6 and 7.
- Produces Figure 10.