

README

Overview

This package includes all the replication materials for “**The State of Global Services Trade Policies: Evidence from Recent Data**” by Laura Baiker, Ingo Borchert, Roberto Echandi, Ana M. Fernandes, Ishrat Hans, Joscelyn Magdeleine, Juan A. Marchetti, and Ester Rubio Colomer.

Data Availability Statement

The authors of the manuscript certify they have legitimate access to and permission to use the data used in this manuscript. Most of the data are available for download at no cost at the replication package website. Some of the data not available on that website can be requested from the author team while other data cannot be shared.

Data Availability

Restricted STRI data: All STRI results are directly produced by us as part of various workstreams, projects and (internal) research jointly undertaken by the World Bank and the WTO Secretariat under our joint World Bank–WTO cooperation (I-TIP Services). As indicated below, the methodology used to produce these STRIs is transparently described in the [Methodology Note](#). The datasets mentioned as Restricted below are not publicly available, and external users cannot request access to them. The services ad valorem trade cost estimates are part of ongoing research efforts.

Data File	Data Description	Access
<i>Data provided for analysis</i>		
STRI_29Aug24_2022_preboundingfct.dta	STRI scores 2019-22 before and after application of the bounding function	Restricted. Not included in the package
STRI_29Aug24_2022_broad-sector.dta	STRI scores 2019-22 at the broad sector level	Provided in \Data folder. STRIs produced by World Bank-WTO team. ¹
STRI_29Aug24_2022_subsec-mode.dta	STRI scores 2019-22 at the subsector-mode level	Provided in \Data folder. STRIs produced by World Bank-WTO team. Go to the website - by clicking on “All WB-WTO STRI data (including 2008-11)” in the drop-down menu, a zip folder containing the STRI results will be saved to the

¹ The World Bank–WTO STRIs downloadable from the I-TIP Services website were expanded and updated after the working paper was finalized (<https://itip-services-worldbank.wto.org/>). The methodology to produce World Bank-WTO STRIs is explained in the Methodology Note available here: <https://itip-services-worldbank.wto.org/docs/WB-WTO%20STRI%20Methodology.pdf>

Data File	Data Description	Access
		computer. The STRIs used for the working paper were produced on 29 August 2024. ²
STRI_29Aug24_2022_country.dta	STRI scores 2019-22 at the country level using value-added weights of services sectors of individual economies' total value added for 2021	Restricted. Not included in the package
STRI_29Aug24_OT2016_subsector.dta	STRI scores 2019-22 at the subsector level, comparable to the 2016 sector composition	Provided in \Data folder. STRIs produced by World Bank-WTO team. ²
STRI_29Aug24_OT2016_broad-sector.dta	STRI scores 2019-22 at the broad sector level, comparable to the 2016 sector composition	Provided in \Data folder. STRIs produced by World Bank-WTO team. ³
STRI_29Aug24_2016_subsector.dta	STRI scores 2016 at the subsector level	Provided in \Data folder. STRIs produced by World Bank-WTO team. ²
STRI_29Aug24_2016_broad-sector.dta	STRI scores 2016 at the broad sector level	Provided in \Data folder. STRIs produced by World Bank-WTO team. ²
WB_inc_class_1987_2022.dta	Country classification into income per capita brackets by year, official World Bank data	Provided in \Data folder and created from an official World Bank Excel file with raw data downloaded at (accessed 10 September 2025): https://ddh-openapi.worldbank.org/resources/DR0095334/download. That Excel file was slightly modified as follows: a) keep only the relevant worksheet "Country Analytical History" b) change row 1 such that cell entries correspond to variable names (income group per year) c) raw data file saved as "OGHIST_1987_2022_infile.xlsx", provided in \Data folder

² Comparable 2019-22 STRIs are not publicly available on the I-TIP Services website. The methodology to produce World Bank-WTO STRIs is explained in the Methodology Note available here: <https://itip-services-worldbank.wto.org/docs/WB-WTO%20STRI%20Methodology.pdf>

Data File	Data Description	Access
WDI_etrychar.dta	Selected country characteristics	Provided in \Data folder. Data for specified time series downloaded from the World Bank “World Development Indicators” Data Portal via the -wbopendata- command (accessed 24 September 2025);
STPD_economies_WTO_regions.dta	WTO region affiliation of countries	Provided in \Data folder. The dataset contains WTO regional groups, which is the classification used in I-TIP Services: https://itip-services-worldbank.wto.org/
applied_tariff_rates_manuf.dta	Trade-weighted applied tariff rates for manufactured products (%), calculated by the World Bank.	Provided in \Data folder. The dataset contains trade-weighted applied tariffs for manufactured products by country, filtered for the year 2021, or the closest available years. The data was downloaded and compiled from the World Bank's World Development Indicators (accessed 7 July 2024): https://databank.worldbank.org/source/world-development-indicators/Series/TM.TAX.MANF.WM.AR.ZS
STPD_2025_AVE_estimates.dta	Ad-valorem trade cost estimates of observed STRI changes 2016 – 2019/22	Restricted. Not included in the package

Hardware and Software Requirements

- 11th Gen Intel(R) Core(TM) i5-1145G7 @ 2.60GHz 1.50 GHz with 16GB RAM.
13th Gen Intel(R) Core(TM) i5-1345U @ 2.60GHz 1.60 GHz with 16GB RAM.
- Windows 11 Enterprise version 23H2.
- Stata (code was run with version SE/18 and MP/17).

Instructions to Replicators

1. Save the zipped replication package in a folder of your choice and unzip it. The unpacking will include two subfolders named “Data” and “Output”, respectively, which should be located directly under the folder into which the replication programs have been saved.
2. In each of the five Stata program files named “00_STPD_2025_...” to “04_STPD_2025_...” insert your individual folder location into the global macro “path” in the header of the program.

The following Stata programs immediately produce the following tables and figures from the paper:

a. **00_STPD_2025_data.do** produces

- Stata data file “WB_inc_class_1987_2022.dta” from official World Bank raw data file “OGHIST_1987_2022_infile.xlsx”, which is part of the Data folder.
- Stata data file “WDI_etrychar.dta” from official World Bank World Development Indicator raw data downloaded using a built-in Stata command, saved in the Data folder.

b. **01_STPD_2025_Fig2.2.do** produces

- Figure 2.2(a): Two-part bounding function – conceptual approach. Appears as Fig2-2a.pdf in Output folder
- Figure 2.2(b): Two-part bounding function – practical application to 2022 STRI scores. Appears as Fig2-2b.pdf in Output folder.

c. **02_STPD_2025_Tab3.1-3.2.do** produces

- Table 3.1: STRI by Broad Sector and Income Group, 2019-22. Tabulation will appear in Stata output window. Column headings: H = high-income, UM = upper medium income, LM – lower-medium income, L = low-income country group. The number of economies per income bracket (bottom row in the paper table) appear as a separate table in the Stata output window.
- Table 3.2: Sectoral Restrictiveness and Economic Characteristics. Appears as Table3-2.csv in Output folder.

d. **03_STPD_2025_Fig5.1-5.2.do** produces

- Figure 5.1: Change in AVE trade cost estimates against initial level of restrictiveness, 2016-2022 (both monochrome and HIC vs non-HIC versions). Appears as Fig5-1a.pdf and Fig5-1b.pdf in Output folder.
- Figure 5.2: Average change in AVE trade costs 2016-2022, by income bracket. Appears as Fig5-2.pdf in Output folder.

e. **04_STPD_2025_all_other_Figures.do** produces

- Figure 3.1: Distribution of STRIs by Broad Sector, 2019-22. Appears as Fig_3_1.wmf in Output folder.
- Figure 3.2: STRIs by Regional Groupings and Selected Broad Sectors, 2019-22. Appears as Fig_3_2.gph in Output folder.
- Figure 3.3: STRIs by Economic Groupings and Selected Broad Sectors, 2019-22. Appears as Fig_3_3.gph in Output folder.
- Figure 3.4: Services trade and goods trade policies, 2019-22. Data can be provided upon request, see table above for details. Appears as Fig_3_4.wmf in Output folder.
- Figure 3.5: Mode 1 STRIs across Subsectors, 2019-22. Appears as Fig_3_5.wmf in Output folder.
- Figure 3.6: Mode 3 STRIs across Subsectors, 2019-22. Appears as Fig_3_6.wmf in Output folder.
- Figure 3.7: Mode 4 STRIs across Subsectors, 2019-22. Appears as Fig_3_7.wmf in Output folder.
- Figure 4.1: Average Change in STRI levels by Subsector, 2016-2022. Appears as Fig_4_1.gph in Output folder.
- Figure 4.2: Comparison of STRIs by Broad Sector and Income Group, 2016-2022. Appears as Fig_4_2.wmf in Output folder.
- Table 4.1: Change in STRI levels by Subsector and Income Group, 2016-2022. Appears as Tab_4_1.xlsx in Output folder.
- Table 4.3 (Panel B)³: Change in STRI levels by Broad Sector and Income Group. Appears as Tab_4_3.xlsx in Output folder.

³ Panel A of Table 4.3 replicates Table 2 from "Borchert, Ingo; Magdeleine, Joscelyn; Marchetti, Juan A.; Mattoo, Aaditya. 2020. The Evolution of Services Trade Policy Since the Great Recession. Policy Research Working Paper; No. 9265. © World Bank. <http://hdl.handle.net/10986/33849> License: CC BY 3.0 IGO.

3. Figures 4.3-4.5 in Section 4 were produced by analyzing responses to the relevant measures available in the Services Trade Policy Database on the I-TIP Services website, separately for 2016 and 2019–22. The file "Output/Fig_4_3-4_5.xlsx" contains the calculated percentage points by measure and income group, along with the following figures from the paper:
 - Figure 4.3: Incidence of Cross-Border Data Flow Restrictions, by Income Group (% of Economy-Subsector Observations)
 - Figure 4.4: Incidence of Investment Measures, by Income Group (% of Economy-Subsector Observations)
 - Figure 4.5: Incidence of restrictions on the Movement of Natural Persons, by Income Group (% of Economy-Subsector Observations)