

***icio* Stata command to build the file “WDR2020_gvc_data.csv”**

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This document describes the Stata command to compute the main value-added trade and global value chains measures used in the World Development Report 2020.

Please cite “Belotti, F., Borin, A., and Mancini, M. 2019. *icio*: Economic Analysis with Inter-Country Input-Output tables in Stata, Policy Research working paper, World Bank, *forthcoming*.” and the original Inter-Country Input-Output database you are using (WIOD, OECD-TiVA or EORA, see below for the references).

All the measures included in the file [WDR2020_gvc_data.csv](#) are computed using ***icio***, a Stata command for value-added trade and global value chains analysis developed by Federico Belotti, Alessandro Borin and Michele Mancini (Belotti et al., 2019). ***icio*** exploits the most common Inter Country Input Output tables, [WIOD](#), [OECD-TiVA](#) and [EORA](#) (see Timmer et al., 2015; OECD, 2018 and Lenzen et al., 2013, respectively), to compute a very broad set of trade in value-added and GVC participation measures described in detail in [Borin and Mancini \(2019\)](#). For further details, see <http://tradeconomics.com/icio>.

The ***icio*** command works from Stata version 14.2 and above.

To install the most updated version of ***icio***, open Stata and run:

`ssc install icio`

Then, load the last available year of a selected ICIO table: **`icio_load, iciotable(table_name)`**

where *table_name* might be:

`wiodo` WIOD 2013 version
`wiodn` WIOD 2016 version
`tivao` TiVA 2016 version
`tivan` TiVA 2018 version
`eora` EORA26 v199.82

or load a chosen year, running:

`icio_load, iciot(icioname) year(#)`

where *#* is an available year of the selected ICIO table. See **`icio_load, info`** for a description of the source, version and time-span of the Input Output databases available in ***icio***.

To obtain information of the table that has been loaded (country and sector list), run: **`icio, info`**

To compute value-added trade and GVC measures **for the exports of a country**, run:

`icio, exp(country_name)`

To get value-added trade and GVC measures **for the exports of a country**, run:

`icio, exp(country_name,sector_number).`

To get value-added trade and GVC measures **for each sectoral exports of a country**, as those reported in the dta file, run:

`icio, exp(country_name,all)`

To get the same results as above and export them in an xls file, run:

`icio, exp(country_name,all) save("path_name\file_name.xls")`

where `path_name` is a valid directory and `file_name.xls` is a valid file name.

Several other options are available in `icio`. Please see the help file running [help icio](#).

References:

Belotti, F., Borin, A., and Mancini, M. 2019. `icio`: Economic Analysis with Inter-Country Input-Output tables in Stata, Policy Research working paper, World Bank, *forthcoming*.

Borin, A. and Mancini, M. 2019. [Measuring What Matters in Global Value Chains and Value-Added Trade](#). Policy Research working paper; no. WPS 8804; WDR 2020 Background Paper. Washington, D.C.: World Bank Group.

Lenzen, M., Moran, D., Kanemoto, K., Geschke, A. 2013. 'Building Eora: A Global Multi-regional Input-Output Database at High Country and Sector Resolution.' *Economic Systems Research*, 25:1, 20-49.

OECD, Trade in Value Added database, 2018, oe.cd/tiva and <http://www.oecd.org/sti/ind/inter-country-input-output-tables.htm>.

Timmer, M. P., E. Dietzenbacher, B. Los, R. Stehrer and G.J. de Vries, 2015. 'An Illustrated User Guide to the World Input-Output Database: the Case of Global Automotive Production.' *Review of International Economics*. 23: 575–605.