

Updating the World Input-Output Database (WIOD) in the Global MRIO Lab

Topic: Global MRIO Laboratory

Author: Muhammad Daaniyall ABD RAHMAN

Co-Authors: Arne GESCHKE, Keiichiro Kanemoto, Manfred LENZEN, Yanyan XIAO

This article describes the processes of updating the World Input-Output Database (WIOD) in a virtual laboratory environment called the Global MRIO Lab. With the view to continuity for the existing WIOD user community, the IELab system has been designed to match the original WIOD construction pipelines as closely as possible. The only major departure from WIOD practice is that we apply a single-step reconciliation procedure compared to WIODs original two-step reconciliation process. The single-step reconciliation procedure considers both SUT and trade data sources, whereas the original two-step procedure handles these types of data sources separately. Compiling the WIOD database in the Global MRIO Lab offers a number of advantages such as flexibility in terms of sectoral and spatial resolution, a less labour-intensive and hence more cost-effective data integration process, and a faster turnaround time for data updates. These advantages are largely owed to the high degree of automation within the Global MRIO Lab. Therefore, implementation of the WIOD database in the Global MRIO Lab will allow for continuous updates in the future.