

## **Constructing a Time Series of Chinese Multi-regional Input-output Tables at Provincial Level and High Sector Detail**

Yafei Wang\*

University of Sydney, Sydney, Australia [ywang@physics.usyd.edu.au](mailto:ywang@physics.usyd.edu.au)

Manfred Lenzen

University of Sydney, Sydney, Australia [m.lenzen@physics.usyd.edu.au](mailto:m.lenzen@physics.usyd.edu.au)

Multi-region input-output (MRIO) tables have been acknowledged as a key tool at the forefront of environmental policy debates. However, several versions of Chinese sub-national multi-region (ChineseMRIO) tables lack harmonization with the aggregated regions and sectors and have less detailed trade information for years 1997, 2002 and 2007, resulting in limited applications of their use in environmental footprinting and driving forces analyses. A time series of MRIO tables for China's 30 provinces is developed. The innovative series is the first subnational MRIO tables constructed by an Automated Integration System for Harmonised Accounts (AISHA) tool. First, it is available as a continuous time series of ChineseMRIO tables from 1997 to 2010. Second, it distinguishes 135 commodity sectors in combination with 186 countries in Eora MRIO database. Third, it provides updated information therefore significantly improving timeliness. These advances will dramatically improve the applications of ChineseMRIO tables for policy-makers and researchers.

**Key Words:** Chinese MIRO tables, structure of Chineses economy, trade linkages