

A New Subnational MRIO Table for Indonesia

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Indonesia is an archipelago country with 5 main islands, and more than 14,000 small islands. Given its geographical size and economic diversity, the comprehensive information capturing all Indonesian area is vital. However, this vital information appears not to be sufficiently integrated and harmonised. It, therefore, might prevent the establishment of the economic and environmental modelling for investigation of the national and sub-national issues, such as impact of inter-regional trade, return on investment of social spending among regions, and individual income disparity and regional tax potential. The sub-national work using the input-output concept is applied to the Australian Industrial Ecology Laboratory (IELab) which integrates all possible economic and environmental data into a single system at high regional and sectoral detail. Following the construction process of the Australian IELab, we will introduce a novel concept to Indonesian research environment: a collaborative work of input-output modelling on a cloud-computing environment. The Indonesian IELab is proposed to be the most comprehensive input-output table in Indonesia, capturing 1,148 economic sectors and 495 cities and regencies. The concept of this virtual machine is that it gives flexibility for multi-discipline users to construct their own MRIO table in order to suit their own research purposes. The 2010 national input-output tables consisting of 185 sectors are utilized as the main data and the 2010 labour survey (Sakernas) consisting of 1,148 sectors and 495 cities and regencies are utilized as the proxy for regionalisation.