

Regional differentiation of technological coefficients in Russia

Topic: Country case studies

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The paper focuses on concept that countries with large territories and diverse natural and climatic conditions need constructing regional IOTs. At that, regional tables should be compiled basing on data of one-time-only survey of production cost structure but not on averaged country technological coefficients.

This question is especially urgent in condition of forthcoming one-time-only survey in Russia in 2011 and subsequent constructing of IOTs. However, none of the 83 subjects of the Federation is going to have IOT constructed, and the author points out that it is crucial mistake for the spatial analysis and planning.

In fact, analysis of regional difference of technological coefficients requires availability of regional tables. However, regional IOTs haven't been constructed in Russia for 25 years yet. Luckily, separate kinds of unit costs (electric energy, refined petroleum products, gas, transportation services) are measured in every region of Russia. The author has carried out interregional comparative analysis of their required input per one unit of industry output. Certainly, technological coefficients and unit costs aren't the same. However, there are quite many products produced mainly by single industry, and in this case regional variation of unit costs reflects regional differentiation of technological coefficients.

Regional variation of unit costs has been studied at different aggregation levels of industries and regions. Factors of regional differentiation of unit costs are studied as well. Comparative analysis of regional and average Russian technological coefficients was carried out in previous research (the 18th IOT conference, A. Sayapova).

The sufficiently detailed study has revealed high level of regional differentiation of unit costs. That proves necessity of constructing regional tables with the use of one-time-only survey data.