

Labor productivity as a factor for increasing public production efficiency

Polovkina E., Badrieva L.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© MCSER-Mediterranean Center of Social and Educational Research. The article focuses on an integral estimation of the public production effectiveness and shows the role of human labor productivity in the formation of the summarizing performance indicator. It focuses on measuring the public production effectiveness. The role of labor productivity as a major criterion of the efficiency of the national economy is shown. The problem of measuring the public production effectiveness is inseparable from the problem of measuring productivity. The aim of this study is to identify minimum indicators that characterize the public production efficiency and which make up a balanced system. To search for a balanced system the study uses: the traditional scheme of resource expressions for integral indicator of the public production effectiveness, including labor resources, production capital and working capital; integral estimation of the public production effectiveness, including labor productivity, return on fixed capital stock; return on stocks; after receiving a list of factors for integral estimation of the efficiency of production, procedure for calculating the multivariate average value of production resources is used in order to identify the role of human labor productivity and other factor variables in the summarizing performance indicator. Quantitative analysis of factors for integral expression of regional effectiveness of public production under the conditions of each individual unit of the territorial system can be accomplished by methods of the index factor analysis. As for the application to the whole territorial system, taking into account the statistical nature of the dependencies studied it is appropriate to use correlation - regression and multivariate analyzes, which make it possible to pose the problem in matrix form, and therefore they are adequately relevant to the content of system approach. The results of the analysis are mostly characteristic of engineering. In other industries, there is specificity in the distribution of the weighted coefficients of the performance indicators used in the manufacturing process of certain types of resources.

<http://dx.doi.org/10.5901/mjss.2014.v5n24p366>

Keywords

Correlation and regression analysis, Efficiency, Efficiency factors, Labor productivity, Multivariate analysis