

# IMPROVEMENT OF METHODS FOR ASSESSING THE EFFECTIVENESS OF INDUSTRIAL ENTERPRISE MANAGEMENT IN THE KNOWLEDGE ECONOMY

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## Abstract

The paper deals with the intensification of theoretical and practical bases of formation of the efficient and effective system of methods for management of the industrial enterprises in Ukraine. The authors substantiate the need to improve the management system of enterprises in the formation of the knowledge economy. The paper proposes to determine the efficiency of the methods for the management of enterprises, based on the provisions of the quantitative and systemic approach to the modern management. In the paper the authors consider the enterprise as an open system, which became the basis for the presentation of its management structure as a system of management methods (administrative, economic and socio-psychological ones) with a list of indicators for assessing their effectiveness and efficiency. The purpose of the paper is to intensify the theoretical and methodological provisions for the development of a set of management methods in industrial enterprises to ensure the effectiveness and efficiency of their management.

The base of the study is formed according to the statistical data of the industry of Ukraine for 2010 - 2020. Integrated indicator of the complex efficiency of the application of economic methods for management of industrial enterprises is calculated according to the method for integrated assessment of the potential of a multidimensional dynamic object.

The results of the research are presented in the form of mathematical models of potential functions of efficiency and effectiveness of the system of economic methods for enterprise management and its components of subsystems to stimulate success and financial and economic management, as well as their integrated indicators. The results of the research show that the indicator of complex efficiency of socio-economic management methods is determined by the methods of calculating the aggregate (integrated) indicators. The authors substantiate the feasibility of implementing management decisions in the system of economic methods of management of industrial enterprises, based on the shares of indicators in the target value of the potential function.

The paper proves the need for the development of personnel management system and innovative activity of the enterprise in the conditions of formation of knowledge economy. The results of the research are of practical importance and can be used at the state level in the development of strategic plans for industrial development, as well as in the management system of industrial enterprises.

**Key words:** Management Methods, System Analysis, Industry, Priority, Integrated Indicator.