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ECONOMETRIC MODELING OF DEVELOPMENT OF INNOVATION COMPONENT OF THE INDUSTRIAL POTENTIAL

Taking into account strategic priorities of the country development, innovation component should become the dominant basis for national industrial potential. Therefore, it is necessary to identify factors that create conditions for the development of innovative industrial potential aimed at the effective state management.

Factors that have the greatest impact on the development of innovative component of the industrial potential are identified in the article with the help of correlative-regression models. The basis of econometric modelling is the following economic hypotheses. The first hypothesis: the innovative component is estimated by a set of indicators, which are the criteria of technological development and innovation activity of enterprises. The second hypothesis: the development of innovative component has cause-and-effect connection with social and economic factors that are the results of human activity. Indicators that characterize scientific potential, government funding of scientific and tech-

nical work, investment climate in the country, development of international economic activity, the financial condition of enterprises are taken as independent variables. The resulting indicators are the number of new technological processes implemented in industry, total innovation expenditures and sales volume of innovative products. The calculations of the first model determined that scientific potential has significant impact on the development of innovative technological component. According to the second and third models, foreign investment and development of international economic activity have the greatest impact on the innovative development of industrial potential. Carried out econometric modelling shows that the main destabilize factor of the development is a poor financial state of industrial enterprises.

Consideration of the obtained results will allow creating the most favourable conditions for the development of innovative component of the industrial potential.