

ASSESSMENT OF THE IMPACT OF UNCERTAINTY ON THE LEVEL OF CORRUPTION AND ECONOMIC GROWTH: ANALYSIS BY THE SIZE OF ENTERPRISES

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Abstract. *Uncertainty and corruption are considered as the main factors of economic growth in Ukraine. The concept of analysis and modeling of the influence of corruption and uncertainty on business development by the size of enterprises is proposed. The corruption persistence index (SRI) indicator was used to assess corruption, and OVDP (domestic state loan bonds) was used for uncertainty. Dependencies were established, models were built and analysis was carried out.*

Keywords: *economic growth, small, medium and large business, level of corruption, uncertainty, domestic government loan bonds, econometric modeling, integration of models.*

The impact of corruption and information risks on entrepreneurship is an important, but insufficiently researched issue in modern society. Corruption and information deficiency create obstacles to economic growth, innovation support, and efficiency improvement. Therefore, the research aims to develop a concept for analyzing the influence of uncertainty and corruption on entrepreneurship development in Ukraine and to build econometric models based on enterprise size segmentation.

The research methodology is built on the integration of mathematical and

statistical methods: correlation-regression analysis and economic dynamic modeling. An analysis of the impact of corruption on entrepreneurship has been conducted, and an econometric model of dependency has been constructed. For the study, datasets of production volumes segmented by enterprise size and the Corruption Perception Index (CPI) have been considered. The analysis of the models showed that an increase in resistance to corruption increases production volumes exponentially.

To evaluate the impact of uncertainty on enterprise development, a measure of dispersion of domestic government bond yields (DGBY) has been proposed. A

correlation-regression analysis has been conducted, models of dependency of enterprise sales volumes on yield dispersion as an uncertainty indicator have been constructed, and a logarithmic dependence has been established.

To account for the influence of both factors, an integration of models has been proposed. As a result of model creation, it has been revealed that there is a negative exponential dependency between uncertainty and corruption resistance. Considering this fact, a model of interaction has been obtained, where uncertainty affects the level of corruption

and, in turn, indirectly affects economic growth.

As a result of the research, the methodology for evaluating the impact of uncertainty and corruption on economic growth in Ukraine, segmented by enterprise size, has been improved. Further development has been achieved in the analysis and evaluation of the dynamics of enterprise sales growth depending on corruption and uncertainty. The obtained results and factor dependencies have practical significance and can be used for modeling and calculating the level of corruption impact on economic entities.

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