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**ORDER PARAMETERS AND EFFICIENCY FACTORS OF  
NATIONAL INNOVATION SYSTEMS IN THE CONTEXT  
OF GLOBAL COMPETITION CHALLENGES**

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**Research methodology.** The results are obtained with the following methods: the correlation and regression and rank-correlation analysis in the identification of the order parameters of open national innovation system (NIS); causal and functional analysis for the disclosure of its relationship with the efficiency of NIS and the level of innovative development of national economies.

**Results.** The approaches to the study of factors and indicators of the effectiveness of national innovation systems are considered. It is proved that the cooperative nature of innovation processes determines the feasibility of identifying the order parameters NIS – collective variables that determine long-term trends in the development and co-evolution of the system, subordinating the behavior closely interrelated with it the elements of the environment and, through them, the functioning of the higher aggregation level.

After processing the primary data array technique «Global innovation index INSEAD» within the general sample of countries, it was determined that the set of significant correlates of the effectiveness of NIS include political stability, government effectiveness, the intensity of domestic competition, ease of tax paying and business liquidation procedure, the availability of credit resources, the number of research staff, gross R&D expenditure. It was revealed that for the group of middle-income, innovation macrodynamics significant factors are: the level of gross capital formation, the tax burden on business, barriers to foreign competition, the intensity of domestic competition, foreign direct investment. A significant relationship between changes in ranking the country's position in the world ranking of innovation and changes in the level of technological development of the national economy, the quality of education and the knowledge economy, ICT penetration and practice of clustering, R & D financing was empirically demonstrated.

**Novelty.** There were significant determinants of the effectiveness of NIS universal and limited action. The breakthrough competitive advantages, which

provide increase of rank the country's position in the global innovation ranking are concretized.

**Practical value.** Based on the identified and substantiated empirically valid regularities, there are suggested state economic policy benchmarks in innovation sphere that are aimed at improving the innovative development of the national economy.

**Keywords:** global competition, national innovation system, order parameters, efficiency factors, rating, correlation, breakthrough competitive advantage.

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