

Methodology to Analyze the Resource Potential of Innovative Clusters in the Context of SDGs

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ABSTRACT

The need to ensure national economic security and sustainable regional socio-economic development actualizes the goal of analysis and theoretical understanding of cluster development processes impact on the innovative development consistency. Increased competition in the high-tech markets, growing challenges of global disintegration, as well as the external threats to national security and integrity of many countries, necessitate a proactive policy to strengthen the technological sovereignty and sustainability of their territories. The purpose of the study presented in the paper was to develop a comprehensive methodological approach to the analysis of the resource potential of regions with developing innovative clusters. A hypothesis put forward about the mutual dependence between the consistency of innovative development and the degree of clustering in the regional economic space in Russia. Another hypothesis was that for Russian regions, the creation of new transnational clusters with BRICS member states and the Eurasian Economic Union, as well as candidate countries for accession and potential partners, is particularly relevant. The resource potential of developing innovative clusters is considered on the basis of the innovative hypercluster model, corresponding to both the prospective trends in the world economy, and the spatial peculiarities of Russian Federation. To assess the resource potential of developing innovative clusters, a methodology of complex analysis has been developed. The Index of Resource Potential for Sustainable Development (IRPSD) is based on five sub-indexes: Index of Economic Potential for Sustainable Development (IEPSD), Index of Human Potential for Sustainable Development (IHPSD), Index of Financial Potential for Innovative Development (IFPSD), Index of Scientific and Technological Potential for Sustainable Development (ISTPSD), Index of Cluster Potential for Sustainable Development (ICPSD).

Keywords: innovation cluster, sustainable development goals, SDGs, innovative regional development, digital transformation.