

Geographical Characteristics of Road Infrastructure Modernization in Georgia and Challenges of Sustainable Development

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Ensuring sustainable socio-economic and environmental development represents one of the fundamental objectives of contemporary civilization. In this context, spatial (territorial) planning plays a significant role and is regarded as an essential instrument for achieving national sustainable development and improving quality of life. Today, the majority of countries worldwide seek to implement the principles of sustainable development, which in turn increases governmental and public interest in spatial planning.

This issue is particularly relevant for Georgia due to its advantageous geographical location, which enables the country to accelerate economic development and actively engage in international political and economic processes. Owing to its geopolitical position, Georgia serves as a connecting bridge between Western countries and Central Asia, a role that entails substantial responsibility in contributing to global sustainable development.

The aim of the research is to conduct a comprehensive analysis of the development of Georgia's transport corridors within the framework of spatial planning and to assess their impact on the country's socio-economic development and sustainability. The study is based on an analysis of the current situation, identification of key challenges, and formulation of relevant recommendations. Particular attention is paid to challenges arising from Georgia's mountainous relief, complex climatic conditions, and seismic activity, which significantly affect the planning, construction, and operation of road infrastructure.

Based on the research findings, conclusions and recommendations will be developed to improve the planning and development of transport infrastructure, taking into account Georgia's specific natural, geographical, and socio-economic conditions, thereby contributing to the country's sustainable development