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ASPECTS OF DEVELOPMENT OF SOFTWARE FOR COMPREHENSIVE ENVIRONMENTAL AND ECONOMIC MONITORING OF RURAL TERRITORIES

The article substantiates the theoretical, methodological and applied principles of developing software for comprehensive environmental and economic monitoring of rural areas. It is established that in the current conditions of decentralization, European integration and post-war reconstruction of Ukraine, there is a growing need to create digital tools to support management decisions that provide a comprehensive assessment of environmental, economic and social parameters of the development of territorial communities. The concept of an integrated system of indicators for environmental and economic monitoring of rural areas is proposed, which involves combining environmental, economic and social indicators within a single information and analytical platform. The software architecture is developed, which includes modules for data collection, verification, analytical processing, calculation of integral indices, visualization of results and forecasting development trends. An algorithm for forming an integrated ecological and economic index of rural areas based on the normalization of indicators, determination of weight coefficients and aggregation of sub-indices is proposed. It is proved that the implementation of software will contribute to increasing the efficiency of rural development management, ensuring rational environmental management and achieving sustainable development goals.

Keywords: ecological and economic monitoring, rural areas, digitalization, software, integrated index, information system, balanced development.