INTEGRATED DECISION SUPPORT SYSTEMS FOR TERRITORY MANAGEMENT "RegionView"

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Abstract: This study proposes a scientific and methodical approach to problem solving automation, and intellectualization of multi-criteria decision-making processes for territory management. The substantiation of the composition and structure of the Integrated Intelligent Decision Support System (IIDSS) in management areas is based on a methodology developed by the authors and technologies of proactive monitoring and management of the structural dynamics of complex objects.

RegionView is a modular distributed system comprising server application, GIS server and database server. All components are designed with the use of open-source softwareand don't require the purchase of paid licenses.

The modular principle of construction and use of standard protocols of data exchange provide flexible placement of components of the system.

RegionView is a tool with professional features that don't require professional knowledge in geoinformatics, in Computer and Information Technology.Areas of application: urban and rural municipalities areas monitoring and development management; monitoring the use of agricultural purpose lands and objects of agro-industrial complex; management of forest exploitation; monitoring and forecasting of emergency situations dynamics; assessment of territory investment attractiveness; environmental monitoring; risk analysis for insurance business; recreational activity.