

USING GIS TECHNOLOGY AS A TOOL FOR THE FORMATION OF ENVIRONMENTALLY SUSTAINABLE AGROLANDSCAPE

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The article presents the methodology of environmental-economic zoning using GIS technologies in order to create environmentally sustainable agro-landscapes. It was noted that in agriculture, it is necessary to organize the territory on a landscape-ecological basis, which is taken into account in the proposed methodology. This zoning is proposed to be carried out automatically using the GIS program MapInfo Professional. As a result of ecological and economic zoning in this GIS program, a map of the types of agricultural landscape (AgrTM) and the scheme of ecological and economic zoning of the territory are formed. The order of carrying out ecological-economic zoning and the formation of the Scheme of ecological-economic zoning are considered with the help of the technological schemes presented in the article. The presented methodology was tested on the territory of the Pavlograd municipal district of the Omsk region. In conclusion, it is indicated that the conduct of ecological and economic zoning of the territories of municipal districts and the application of the Scheme of ecological and economic zoning will reduce the time and cost of choosing technologies for land use.

Key words: GIS technologies, map of types of agricultural landscapes, ecological and economic zoning scheme, ecological and economic zoning, environmentally sustainable agricultural landscape.

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