

## **Assessment and Pilot Programming of Spatial-Temporal Dynamics of Mountainous Adjara's Forest Landscapes (with GIS software)**

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The forest is a significant natural resource that develops in the course of the country, providing a vital resource for the human society and in the sustainable development of other sectors, energy and agriculture, is very important. Of great importance are the forest landscapes of mountainous Adjara, which are distinguished by their diversity and uniqueness. They need the care, the involvement of specialists in the field and the planning of their systematic monitoring. Equally important is the implementation of technologies in monitoring, which can be using various mathematical, spatial or other methods. Although today, a large number of common people are skeptical about the use of technology in the scientific field. We have been able to clear these doubts by our research that was conducted using open-source geographical informational system program. Against the backdrop of climate change, intensified extreme natural processes, anthropogenic impacts and other factors have affected forest landscapes. Therefore, in front of these problematic factors, by processing the satellite image of the forest landscapes of our research object, that is, mountainous Adjara, we determined their spatio-temporal dynamics and prepared a pilot project for one of the municipalities of mountainous Adjara.