

Geodetic methods and techniques in land management on the example of Bolnisi Municipality

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From the earliest times, in various regions of Georgia, people wanted to legalize their household and agricultural lands, so as not to conflict with each other and to develop agriculture. The state has started several projects related to the land legalization. Geodetic works are required at the initial stage of legalization. Accordingly, the paper presents the geodetic methods and techniques of land measurement, their optimal use in different environmental conditions, be it in wooded areas, areas with difficult terrain, during different climatic conditions, etc. When measuring land it is necessary to maintain accuracy, which was less in the early period because land measurement technologies and methods differed. Over time, measuring methods have changed, new ones have been introduced, which made possible measuring areas with high accuracy. This fact leads to the placement of land ownership in the exact coordinates, therefore, there will be no more disagreements between the owners and the social issue will be resolved in this regard. In addition, we have dubious border areas with neighboring states due to incorrect geodetic-measuring works. It is true that the problem is all over the country, but I selected Bolnisi municipality, which is characterized by ethnic diversity, both Asian and European representations. There is more social tension in the areas with such diversity, because there is already a problem of assimilation, and if this is added to the incorrect registration of land, there will be more and more conflict and strife, especially since the Azerbaijani population in the municipality is actively involved in agriculture. For this goal, the areas measured with old and modern technologies were compared, positive and negative issues were revealed. It has become clear that the layout of the land in the old days has been significantly changed compared to the real time, as modern technology has clearly shown us what was happening and what the situation is now. In order to eliminate the problem, camera, narrative material and statistical data were processed, on the basis of which the ways and methods of solving the problem were determined.