



CENTRAL ASIAN JOURNAL OF THEORETICAL AND APPLIED SCIENCES

Volume: 03 Issue: 11 | Nov 2022 ISSN: 2660-5317
<https://cajotas.centralasianstudies.org>

Creation of Agricultural Thematic Maps in the ArcGIS Program

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Received 9th Sep 2022, Accepted 8th Oct 2022, Online 15th Nov 2022

Annotation: *In this article, the capabilities of the ArcGIS program, as well as the advantages of the ArcGIS program in creating agricultural thematic maps, information about decisions and changes in the field of cadastre in Uzbekistan are briefly covered.*

Keywords: *ArcGIS, cadastre, decision, agriculture, digital maps, ESRI, technology.*

INTRODUCTION.

Currently, in our Republic, information technologies have developed in all areas, including residential areas and agricultural enterprises, to such an extent that the improvement of cadastral work in them has become the demand of the times, and in other areas, new programs and modern tools are being used to work with digital maps and increase their efficiency. In addition, in order to further expand and improve the possibilities of working with digital maps in the ArcGIS program, working with digital maps is being implemented in the program [1-5].

ArcGIS was developed by the company ESRI, which provides the ability to work together with geographic data and attribute data.

In order to organize the level of cadastral services in accordance with the requirements of our republic, with the help of large funds allocated annually from the state budget, we have automated the mapping of existing land areas and real estate objects on electronic maps and the rapid processing of cadastral data. A lot of work is being done to implement the system [6-10].

MAIN PART.

Today, since the automated system of cadastral information is still new and still being formed, this system mainly serves a narrow range of state purposes. It serves to increase the efficiency of activities of various municipal, utility service, marketing, construction, transport, logistics and other types of service organizations that are part of related economic relations.

In particular, in countries such as Japan, the USA, Great Britain, Singapore, cadastral information is not limited to general information about the address, physical properties, ownership of real estate, from which direction wind, rain, natural phenomena such as the sun are affected and how benefits can be obtained.

For example, cadastral reports show information about which multi-storey buildings can be used for rental income by installing billboards or installing solar panels [11-16].

As our country pursues a consistent policy of building a legal society based on a market economy, it is important for the state to develop the infrastructure of the cadastral service in order to ensure the efficient and rational use of land areas and real estates assigned to them by residents and organizations, and the fair organization of taxes collected from them. becomes important. The improvement of cadastral data allows to improve the lifestyle of the residents of the places of residence reflected in the cadastral reports and objectively assess the market value of real estate objects.

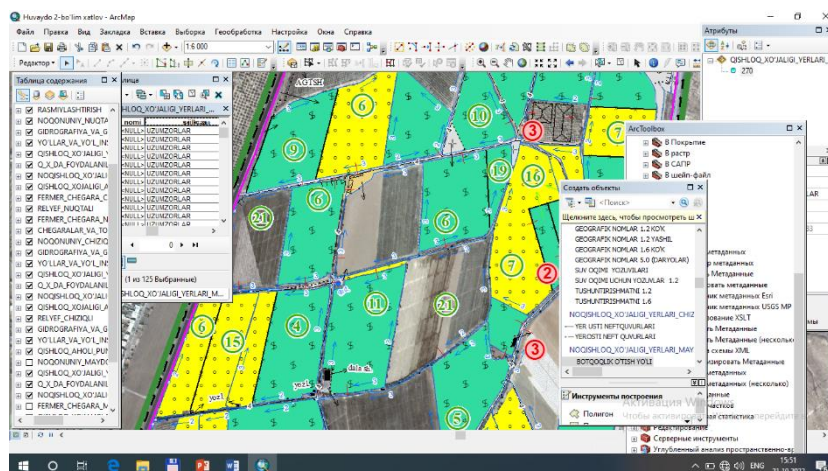


Figure 1.

Based on the experience of developed countries, Uzbekistan is also paying great attention to the development of the national cadastral service [17-22]. Decree of the President of our country No. PF-6079 of October 5, 2020 on the approval of the "Digital Uzbekistan-2030" strategy and its effective implementation" In accordance with the Decree No. PQ-4699 of April 28, 2020, and also to increase the effectiveness of the use of digital and geo-information technologies in agriculture and water management, the Cabinet of Ministers issued Resolution No. 794 on December 17, 2020. In this, work is being carried out mainly in the above-mentioned fields of automation. In addition, on June 6, 2022, "in connection with the improvement of the system of ensuring equality and transparency in land relations, reliable protection of rights to land and turning them into a market asset, amendments and additions to some legal documents of the Republic of Uzbekistan "On" was adopted. By the law, amendments and additions were made to 4 codes and 21 laws. The approval of the results of the open electronic competition for leasing was canceled. The land plots intended for agriculture were previously awarded on the basis of an open competition, but now they will be awarded through an open electronic competition. If the documents about the state registration of the rights were previously issued as a certificate, now an electronic extract from the state register will be issued it happened. Therefore, by improving the automated system of maintaining the cadastre of residential areas, increasing the quality and speed of the provided cadastral services, ensuring that they meet comprehensive needs, it serves to increase the number of users of these services, and to save the funds allocated by the state budget for the development of the cadastral sector. makes it possible [23-30].

By improving the automated system of maintaining the cadastre of the rural population, increasing the quality and speed of the provided cadastral services, ensuring that they meet the wide-ranging needs, it serves to increase the number of users of these services, and makes it possible to save the funds allocated by the state budget for the development of the cadastral sector. . For example, when measuring the land of a village along its border, it is 15 hectares, but if we add the account book in the QFY book of one

resident, it does not give 15 hectares. These problems can be solved by creating digital maps using today's modern electronic equipment. Creating a digital cadastral map of the rural population's land using the ArcGIS program will be of great benefit to the rural population and our country [31-36].

For example, if digital maps are created in the ArcGIS program, we can place all kinds of information on it. This information can be easily used by the neighborhood assembly and other organizations. To use it, we can open the ArcGIS map and get information about the population and other organizations [3-7].

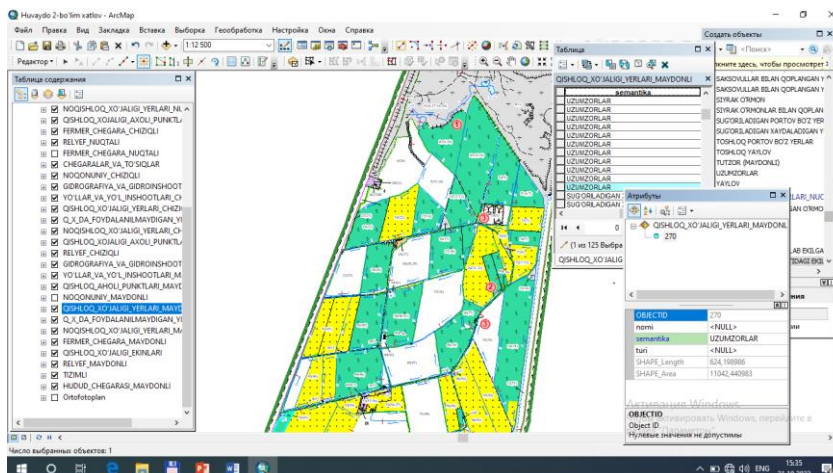


Figure 2.

CONCLUSION

In conclusion, it should be noted that the use of the ArcGIS program in creating high-resolution digital maps today saves the user's time and facilitates the ongoing work. The implementation of these digital maps in production is of great importance in increasing productivity. It should also be noted that changes in the field of cadastre in our country make a great contribution to the development of our country, that is, new decisions, new orders and decrees help to improve the lifestyle of the population.

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