

Volume: 03 Issue: 06 | Jun 2022 ISSN: 2660-5317

Creating a Database for Creating Cadastre Cards

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Received 19th Apr 2022, Accepted 20th May 2022, Online 18th Jun 2022

Annotation: This article provides information on the use of geographic information systems, databases for compiling cadastral maps, information on cadastral facts, changes in the location, status and other elements of cadastral maps.

Keywords: cadastre, database, map, river, street, hill, ArcMap, layout, data frame.

Introduction

As information technology advances, they are changing all aspects of our lives. Today, even the little ones recognize the cell phone or the Internet. Geoinformation systems, on the other hand, have been influencing ancient sciences such as geography, geology, geodesy, cartography, and many other fields. Emerging sciences and technologies based on the experience, traditions and ideas of these fields, in turn, contribute to their development. Providing fast and accurate, accurate and complete information Geoinformation systems play an important role in managing regional and regional development, in making appropriate decisions. Geodesy, cartography and cadastre are widely using the advantages of GIS to solve their problems.[1-5]

The most important issue is the use of GIS. The idea that they can only be used for mapping and equipping is wrong, and their possibilities are endless. For example, in addition to the territorial and spatial analysis used in ancient Earth sciences, special land information systems for cadastral registration, and advisory systems for decision-making and management in various fields have been created. With the help of these systems, the tasks of creating new information products, providing information, studying the place, event, process on the basis of information, making effective decisions and management are solved. [6-11]

The main part

Before creating a cadastral map, you need to think about what it will look like. The structure of the cadastral map should reflect how it is used and who uses it. In this case, the Cadastral Map will be considered at a meeting of the city council. Council members are aware of the choice of location for the new water treatment plant, but members of the public who are expected to attend the meeting are unaware. Both groups need to see the construction site. They also need to be shown all the construction sites and given additional information about other sites. [12-15]

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First of all, you need to determine what elements to include in the Cadastral Map and make a list of them. Then you decide how to put them on paper. In this case, you need to create the following 3 Cadastral Maps for the city council at once:

- 1. General Cadastral Map of the city. It reflects:
- > the streets
- > river
- **▶** hills
- > a graphical frame of the study area.
- 2. Cadastral Map of the place of study. It should reflect the following:
- > construction plots in one color
- > The rest are in a different color
- ➤ Alternate plots are marked with slashes
- > water supply networks
- ➤ Buffer zones around the networks at a distance of 500 and 1000 meters
- > river
- 3. The most suitable places for construction Cadastral Map:
- reas with special color coding, numbering, proximity to roads and sewers
- all other suitable areas are in neutral color
- ➤ Alternative plots are marked with slashes, numbered.

To make it even clearer, you need to add comments and other elements to the Cadastral Map. The Cadastre Map will need the following additional elements:

- > a list of the most suitable plots
- > The text with the criteria for selection of the site
- > Title of Cadastral Map
- > Zoom line for each frame
- > text of comments for each frame
- North Point
- > city logo
- ➤ Information on cadastral maps
- ➤ Graphic frames that complete the composition of the Cadastral Map. [16-35]

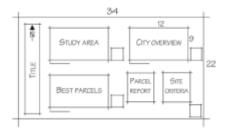
Once you've determined which Cadastral Maps to display and what information to include, you'll need to figure out how to place these elements on the page.

Although you can change the location, status, and other elements of the Cadastre Maps in Arc Map, you may want to put the Cadastre Map plan on paper first. The plan should indicate the location of the

cadastral maps and cartographic elements, the overall size of the cadastral map, and the size of each cadastral map.

When creating a Cadastral Map, you can change the elements and dimensions of the Cadastral Map in an interactive way.

You create the following plan of the Cadastre Map:



Picture-1

The following is a list of all the steps you need to take to create a Cadastral Map:

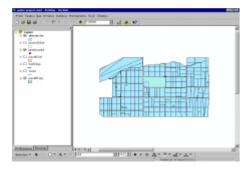
- > Create three data frames
- > change the data frame so that the required layers and geographical extensions are visible
- > reports on plots
- ➤ A text block with selection criteria
- > add a caption and scale to each frame
- Add other graphic and cartographic elements (north pointer, title, logo, reference and graphic frame) [36-40]

Results and discussions.

Placement of cadastral map pages parameters

You create a poster cadastral map (poster) that contains three data frames. You work at Vid and Vid komponovki.

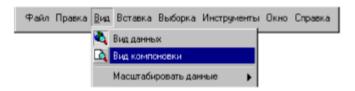
If necessary, go to Ars Map and open the project Cadastre Map water project.mxd (it is in the project folder). Now the Cadastral Map should show the alternative plots layer, drainage system and parkel 01mrg plots. [41-43]



2-picture

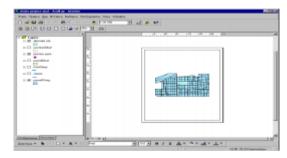
Let's move on to the layout method

1. Press the View and View Settings buttons.



3-picture

The Cadastre Map goes to View View and you see a page filled with data frames and layers. The Composer Toolbar will also appear.

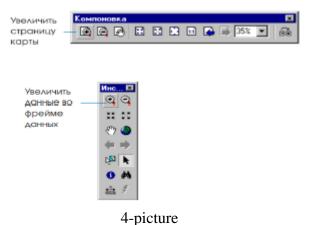


4-picture

View settings allow you to view multiple data frames on a single page and interact with Cadastral Map elements.

A data frame is a way of displaying a group of layers on a single page of the Cadastre Map.

There is currently only one frame at right angles to the page. The layout toolbar includes scaling and on-page scrolling tools. The equipment in the toolbox allows you to work inside the frame just like in Vid. [1-43]



Conclusion

The development of geographic information systems is influenced by scientific and technical achievements, on the one hand, and theoretical and practical research in the field of geodesy and cartography, cadastre, on the other. Theoretical and practical research in this area is just beginning in Uzbekistan, and we hope that it will develop rapidly in the future.

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Today, GIS is a powerful tool that has played an important role in managing data-driven regional development and the use of natural resources. Not limited to mapping and atlasing, they increase research and management productivity.

The development of geographic information systems (GIS) depends mainly on data, hardware and software. The types of data and ways to collect them are increasing, they are improving in terms of completeness, accuracy, detail, modernity. One of the most pressing issues in our country is the creation of such a database, the establishment of exchange standards and its dissemination. Due to the joint use of GIS and geoposition systems, new opportunities are being created to increase the speed, accuracy and efficiency of data collection. Improvement of technical means, in turn, leads to an increase in the efficiency of the GIS. Over the past 10 years, the technical capabilities of the Internet, mobile communications, computers and data carriers have increased significantly. As a result, there are more and more ways to program, manage data, and create new types of geoinformation systems.

In the field of programming, new methods and techniques are being developed, creating several advantages, such as increasing the variety of graphical interfaces and menus in order to facilitate the "life" of the user from a personal computer. The possibilities of joint processing of vector and raster data in geographic information systems are increasing.

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