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## Preparation of Maps for Tourist and Recreational Purposes Based on GIS Technologies

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**Abstract:** *In this article, information is provided on the preparation of maps for touristic and recreational purposes based on GIS technologies, creating the basis of maps.*

**Keywords:** *tourism, recreation, GIS, layout, geographic, resource, territory, historical, ethnographic, region.*

### Introduction.

In our country, on the basis of the socio-geographical study of health, recreation and tourist places, it is widely used in the recreation and tourism resources of the regions for the purpose of restoring health and raising a spiritually mature generation.

The development of recreation resources in the national economy, the formation of modern household service industries that meet social and economic requirements, the creation of new jobs, the construction of modern treatment and rest houses, shops, restaurants and other facilities. creates favorable social conditions for increasing the recreational and touristic potential of the mother region. Economic and social evaluation of the recreation resources of the regions and the use of their possibilities are of great importance in the establishment of such facilities. Therefore, taking into account these opportunities, it is necessary to build campsites, tourist bases, hotels, holiday homes, service areas, artificial forests in the foothills of the mountains, show scenic forests and natural landscapes to the beaches. requires creating favorable conditions for [1-5]

The organization of the activities of tourist, recreation and health facilities is important with the natural and economic conditions of the region, especially the geographical location of the region. For example, the geographical location of Turkey, i.e., its location on the border with Europe, Asia, and Africa, was the main factor in the development of this activity. Also, the natural conditions, historical, ethnographic and cultural place of the countries are important in this. Therefore, the development of rest houses, sanatoriums, sports camps, industry, transport, trade and communication facilities in these areas is the basis for the development of recreational activities. In particular, there are many places in Uzbekistan that

attract the attention of world vacationers. The Western Tianshan, Turkestan, Zarafshan and Hisar mountain ranges, which are called the "Switzerland" of Asia, are one of the same settlements [6-8].

### **Literature analysis.**

Geographical research of recreation and tourism within these areas is directly related to the organization of touristic and recreational activities, social, cultural and natural features of the region. To serve the regional recreation system through comprehensive research of TRF V.S. Probrzhensky, L.I. Mukhina, Yu.A. Vedenin, I.V. Zorina (1960, 1970) and G.T.Kubesova (2004), A.S.Soliev, M.R.Usmonov (2005) were described in their research [9-12]. Fergana region is one of the leading recreational and touristic regions not only in Uzbekistan, but also in Central Asia in terms of its opportunities for health and recreation, and the organization of tourism. Many types of recreation and tourism in the region, in particular, historical, architectural and archaeological monuments, historical recreation purposes, religious sites, and unique cultural and ethnographic traditions are the tourism treasure of the region. But until now, recreational opportunities in most districts of the region are not used. For this, it is necessary to conduct a large-scale study of the geography of recreation in the region, as well as to develop clear criteria [13-15].

### **Result and discussion.**

The creation of a cartographic model that represents the real reality in terms of its geographical location, internal and external relations, structure, quality and quantity indicators, price and cost in a conditionally generalized form, is the theoretical basis for creating large-scale maps. Large-scale cards are national cards that serve to meet the needs of the national economy and to display cadastral data at a certain time in relation to a certain geographical location [16-19].

Therefore, when recreation cards are created, people want to interact with nature to a certain extent in the process of recreation and health recovery and visit different places of the earth. Vacationers mainly try to rest in the heart of nature, take a bath, go hiking, climb mountains and peaks, see natural monuments, and engage in hunting and sports. Using these opportunities, it creates favorable conditions for mapping recreation and health centers of Fergana region on a large and medium scale, as well as for researching many problems of their development from a socio-economic geographical point of view. In the establishment of such objects, it is necessary to evaluate the recreation resources of Fergana region, as well as to expand the possibilities of using the procurement system. one of the urgent problems [20-23].

One of the important tasks is to analyze the available opportunities for the establishment and development of health and recreation centers in the region, to determine the priority directions for the recreation-tourist zoning of the region and recreation-tourist routes, and to develop practical recommendations on a scientific basis. . Research and evaluation of recreational-tourist objects, further development of recreational-tourist resources, development of scientific bases of territorial organization and creation of theoretical-practical bases of their formation, development of tourist-recreational maps and routes in regions it can be said that it has become one of the most urgent problems. Therefore, it is necessary to analyze the available opportunities for the establishment and development of health and recreation centers in the region, to develop a scheme of recreational and tourist routes. In today's socio-economic conditions, scientific-practical recommendations, conclusions for the regional organization and development of health, treatment and national tourism, the development of promising recreation-tourist routes and recreation cards is considered an important factor in solving the problems facing the network [24-29].

President of our country I.Karimov declared 2015 as the "Year of Honoring the Elderly" based on the socio-geographical study of health and treatment centers, the use of recreation and tourist resources of the regions for the purpose of health restoration and spiritually mature is the main task in raising the generation. In this regard, in the Zarafshan region, based on the formation of the potential of health and

recreation facilities, the creation of new jobs, the creation of free recreational-tourist competition, the extension of the treatment-tourist hour of foreign and local tourists, that is, the rest time and for a pleasant vacation, it is necessary to develop recreation-tourist cards of various scales based scientifically on the work of recreation-tourist marketing, geo-pairing [30-33].

The presence of more than 7,000 cultural and historical monuments in our republic, membership in the World Tourism Organization (UNWTO) opens opportunities to further increase the flow of domestic and foreign tourists through the development of tourism infrastructure. Solving the above-mentioned issues is one of the urgent issues of today, and it is possible to further increase the income from tourism and increase the foreign currency income of the republic's budget. During the years of independence, historical monuments, memorial complexes of great scholars, natural monuments were restored and new tourist routes were established by the direct efforts of our president. Service and service services for pilgrims have been organized in the restored and renovated steps.

To date, the creation of maps of newly established tourist destinations is an important issue. In our scientific research, we focused on studying the tourist and recreational opportunities of Fergana region and drawing up their maps [34-37].

The location of Fergana region at the crossroads of the Great Silk Road has led to the strengthening of economic, cultural and political relations with many countries, which has led to the formation of cultural and educational cooperation. Large cultural centers in the region led to the creation of large cities and their transformation into centers of civilization. Fergana region has developed tourism as a result of its comfortable and unique nature, national culture, hospitality of residents, economic, political and cultural relations. One of the important issues is the study of existing historical monuments, monuments and natural monuments in the Fergana region, their visit and the development of new routes. For this purpose, it is necessary to create maps of the selected areas separately, which will create an opportunity to thoroughly study the area, and at the same time, we will get excellent information about historical monuments, places of interest and natural monuments from it. Until now, the lack of large-scale tourist and recreation maps of individual regions of our republic has made it difficult to have accurate information about the existing facilities, therefore, we made the creation of maps of tourist and recreation resources in the region the main goal of our work. Creating tourist and recreational resource cards and card schemes of individual regions and creating information sources is important in organizing long-term and short-term recreation for residents and tourists. In addition, preparation of booklets about places of interest and natural monuments and providing them for the use of tourist companies will ensure more attraction of foreign and local tourists and increase the economic efficiency of tourism [1-3]. By organizing short-term itineraries during major routes, the full exploration of the area will increase the economic efficiency that comes from it, while fully enjoying its tourist and recreational resources. During this time, it is necessary to pay special attention to the organization of services provided to local and foreign tourists, that is, to form tourism infrastructure.

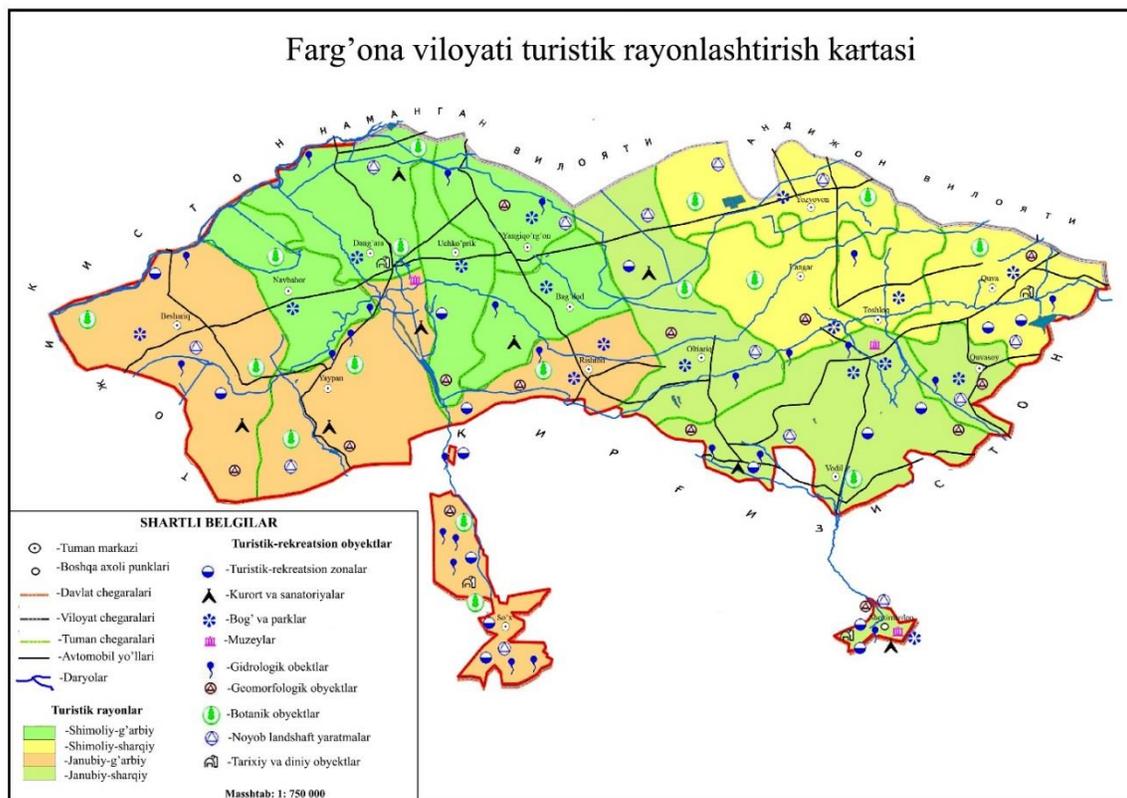


Figure 1. Tourist zoning map of Fergana province

## Conclusion.

In the process of recreation and recovery, people want to interact with nature to a certain extent and visit different places of the earth. Vacationers mainly try to rest in the heart of nature, take a bath, go hiking, climb mountains and peaks, watch natural monuments, hunt and do sports. Therefore, in this chapter, tourist and recreational card schemes were created to help more people and create convenience. This chapter shows the process of preparing card schemes.

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