

## **The Importance of Developing a Territorial Planning Scheme for the Republic of Uzbekistan**

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**Abstract:** The territorial planning scheme of the Republic of Uzbekistan, ensuring the socio-economic development of the country, maintaining environmental stability, taking into account demographic changes, and developing industry and agriculture were considered and development plans were drawn up.

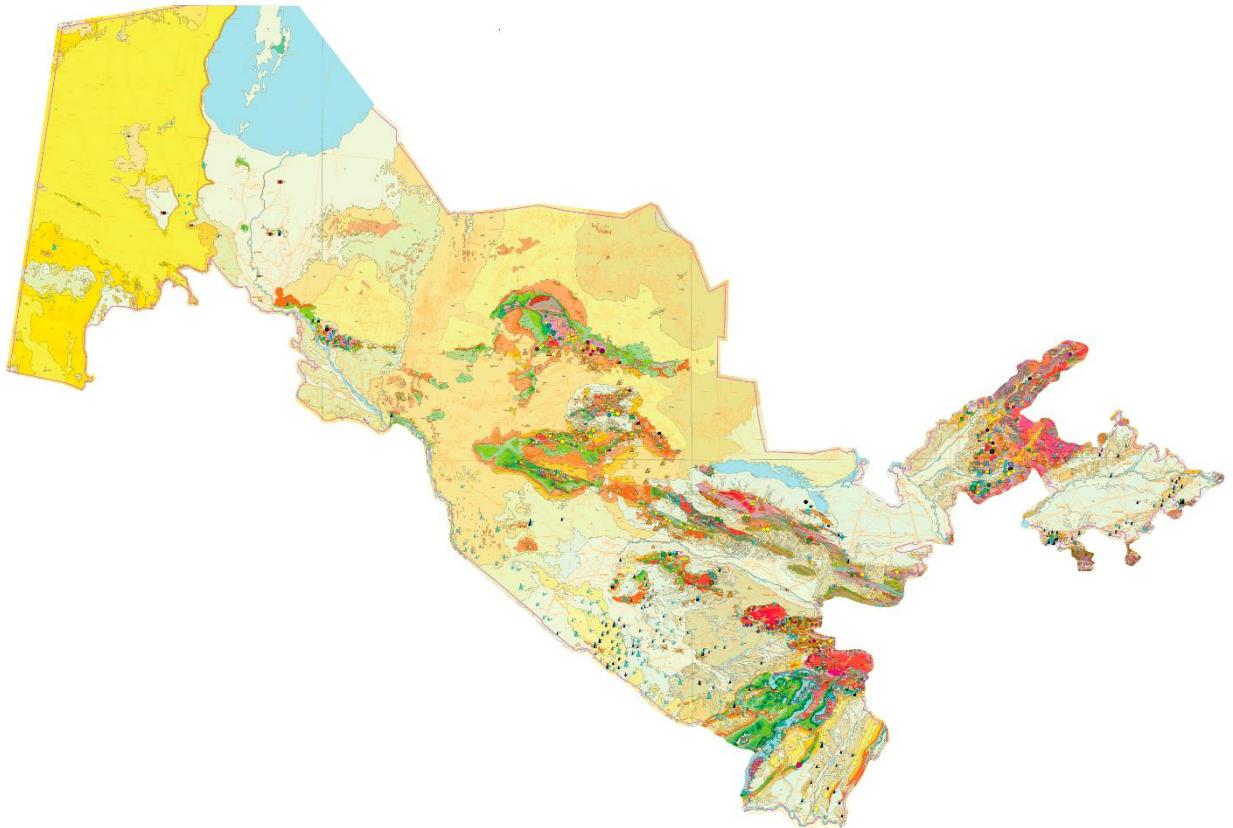
**Keywords:** master plan, territorial planning scheme, ecological balance, urban planning, architecture, natural resources, minerals, land fund, demography, aviation, railways, highways.

**Introduction:** The territorial planning scheme of the Republic of Uzbekistan is of great importance for ensuring the country's socio-economic development, improving the environmental situation, taking into account demographic changes, and effectively managing both industry and agriculture. This article examines these topics. In connection with Uzbekistan's strategic objectives and global economic trends, the development of a territorial planning scheme has become a highly relevant issue. It is necessary to develop appropriate plans to ensure the efficient use of local resources, the provision of services to the population, and economic growth.

The relevance of the topic "Scientific approach and analysis in the development of the territorial planning scheme of the Republic of Uzbekistan" is evident in several key aspects. Effective planning is essential to ensure the socio-economic development of Uzbekistan. Such schemes play a vital role in ensuring the sustainable development of the country.

Main Part. To ensure ecological sustainability, territorial planning must include the protection of the environment, the management of water resources, and the rational use of natural resources. The implementation of innovative technologies is essential in reducing ecological threats.

In order to improve the environmental situation in Uzbekistan, a number of important measures and factors must be considered. Some of these include:



**Water Resource Management:** Implementing water-saving and efficient usage methods, modernizing water management systems, and introducing advanced technologies.

**Reducing Air Pollution:** Introducing environmentally friendly technologies in industrial enterprises, and developing a sustainable transport system to reduce emissions from motor vehicles.

**Agroecology:** Promoting organic agriculture to preserve ecosystems and biodiversity, and using pesticides and chemical fertilizers efficiently and cautiously.

**Nature Conservation:** Expanding and protecting national parks and natural areas, and improving the relationship between people and nature.

**Research and Innovation:** Supporting scientific research to solve environmental problems, and implementing new technologies and innovative solutions.

**International Cooperation:** Collaborating with international organizations to jointly address global environmental issues.

**Adaptation to Climate Change:** Developing strategic plans to reduce the impacts of climate change and ensure the country's environmental sustainability.

Implementing these measures will significantly contribute to improving the environmental situation in Uzbekistan.

**Demografiya.**

**Demography.** The population of Uzbekistan is steadily increasing, which necessitates the development of urbanization and social infrastructure. It is essential to develop plans aimed at improving living conditions, and enhancing the education and healthcare systems.

To properly assess demographics and improve the population's living standards, several key factors must be taken into consideration. These include:

**Population Statistics:** Accurately and consistently collecting and analyzing data such as population size, age structure, gender composition, birth and death rates. These statistics serve as the basis for formulating effective demographic policies.

**Social Infrastructure:** Developing social infrastructure (education, healthcare, social protection) is necessary to improve the population's quality of life. This, in turn, contributes to better health and higher levels of education among the population.

**Job Creation:** Providing employment, reducing unemployment, and creating new jobs to support economic development. These efforts help reduce migration and ensure social stability.

**Healthcare:** Improving the healthcare system, implementing preventive measures, and enhancing medical services to improve public health.

**Environmental Issues:** Protecting nature, using resources efficiently, and implementing measures to preserve the environment to improve ecological conditions.

**Migration Policy:** Properly managing population migration, considering both internal and external migration, and maximizing its positive effects.

**Civil Society:** Increasing civic engagement, involving citizens in decision-making processes, and addressing social issues through public participation.

**Industry and Agriculture.** The development of industry and the modernization of agriculture play a crucial role in ensuring economic growth. Establishing industrial zones and agro-industrial complexes is essential to improve efficiency.

To enhance the industry and agriculture of the republic, attention must be paid to several important factors. The main directions are outlined below:

**Technological modernization.** Introduction of new technologies: Implementing modern technologies, automation, and digitalization in both industry and agriculture.

**Investment in scientific research:** Encouraging scientific research to develop new products and technologies.

**Financial and economic support.** Attracting investments: Modernizing industry by attracting domestic and foreign investments.

**Subsidies and incentives:** Providing government subsidies and benefits to various sectors of agriculture and industry.

**Environmental sustainability.** Implementation of environmental standards: Ensuring compliance with environmental standards in industrial and agricultural activities.

**Environmental protection:** Taking measures for the effective management and preservation of natural resources.

**Infrastructure development. Transport and logistics:** Creating an efficient transport and logistics infrastructure for industry and agriculture.

**Energy supply:** Focusing on energy sources necessary for industrial operations.

**International cooperation. Adaptation to international standards:** Producing and exporting products in accordance with international standards.

**Exchange of experience:** Implementing innovative projects through cooperation and experience exchange with other countries.

**Product quality and competitiveness. Improving quality:** Paying attention to product quality and ensuring its competitiveness.

**Branding:** Promoting and branding Uzbek products in the international market.

These directions are essential for improving and developing the country's industry and agriculture. Through them, it is possible to ensure economic growth, environmental sustainability, and social progress.

**Muhandislik tarmoqlari.** Infratuzilmani rivojlantirish, elektr energiyasi, gaz, suv ta'minoti va kanalizatsiya tizimlarini yaxshilash, ijtimoiy va iqtisodiy rivojlanishni ta'minlaydi. Muhandislik tarmoqlarini modernizatsiya qilish, zamonaviy texnologiyalarni joriy etish kerak.

Respublikaning magistral muhandislik tarmoqlarini to'g'ri rejalashtirishda e'tibor qaratish lozim bo'lgan asosiy omillar.

**Infrastrukturani tahlil qilish.** Mavjud muhandislik tarmoqlarining holati, ularning samaradorligi va ko'rsatkichlarini baholash. Bu, transport, energiya, suv ta'minoti, kanalizatsiya va boshqa muhandislik tarmoqlarini o'z ichiga oladi.

**Demografik va iqtisodiy prognozlar.** Respublikaning demografik o'sishi, aholining migratsiyasi, iqtisodiy rivojlanish tendensiyalari va ish o'rnlari yaratish uchun talabni hisobga olish.

**Ekologik omillar.** Tarmoqlarning ekologik ta'sirini baholash, tabiatni muhofaza qilish, resurslarni samarali ishlatish va barqaror rivojlanishni ta'minlash.

**Texnologik inovatsiyalar.** Yangi texnologiyalarni joriy etish, samaradorlikni oshirish va resurslarni tejashta qaratilgan loyiham.

**Xalqaro tajriba.** Boshqa mamlakatlardagi muvaffaqiyatli tajribalarni o'rganish va ularni o'z respublika shartlariga moslashtirish.

**Ishtimoiy omillar.** Aholining muhandislik tarmoqlaridan foydalanishini, ularning ehtiyojlari va fikrlarini hisobga olish.

**Rejalashtirish va monitoring.** Loyihalarni rejalashtirishda kompleks yondashuv, ularning samaradorligini muntazam monitoring qilish.

Ushbu omillarni hisobga olgan holda, respublikadagi magistral muhandislik tarmoqlarini samarali va barqaror ravishda rivojlantirish mumkin.

Engineering Networks. The development of infrastructure — including improvements to electricity, gas, water supply, and sewerage systems — is essential for ensuring social and economic progress. Modernizing engineering networks and introducing contemporary technologies is necessary.

There are several key factors to consider when planning the main engineering networks of the republic.

Infrastructure analysis. Assessing the current state, efficiency, and performance of existing engineering systems. This includes transportation, energy, water supply, sewerage, and other engineering networks.

Demographic and economic forecasts. Taking into account population growth, migration trends, economic development patterns, and the demand for job creation in the planning process.

Environmental factors. Evaluating the environmental impact of networks, ensuring the protection of nature, efficient use of resources, and promoting sustainable development.

Technological innovations. Introducing new technologies aimed at increasing efficiency and conserving resources.

International experience. Studying successful experiences from other countries and adapting them to the specific conditions of the republic.

Social factors. Considering the population's access to engineering infrastructure, their needs, and feedback in the development process.

Planning and monitoring. Applying an integrated approach to project planning, with ongoing monitoring of their effectiveness.

Taking these factors into account allows for the effective and sustainable development of the republic's main engineering networks.

**Global Experience.** Many countries around the world are applying effective methods in territorial planning. Uzbekistan, too, must adopt innovative solutions by taking into account global experience to ensure modern and sustainable development. For example:

**Singapore:** *Integration of infrastructure.* In Singapore, territorial planning pays special attention to the integration of infrastructure, transport, and residential areas. The transportation system is highly developed and connects all parts of the city. Additionally, a balance is maintained between residential areas and industrial zones.

**Sweden:** *Priorities and sustainability.* In Sweden, sustainability and environmental priorities are among the core principles of territorial planning. The government promotes environmental protection and the use of green technologies. For example, cities encourage the expansion of green zones and the use of electric vehicles in transportation.

**Germany:** *Regional development strategies.* In Germany, regional development strategies are based on cooperation between the national and local governments. Local communities actively participate in the development of their areas, which helps ensure that their needs are taken into account. Furthermore, economic, social, and environmental factors are all considered in development plans.

**Canada:** *Multifunctionality.* In Canada, city planning applies the principle of multifunctionality. Cities are designed to accommodate living, working, and leisure activities within the same area. This reduces transportation costs and improves community life. For example, residential areas, shopping centers, and parks are located in close proximity.

These examples demonstrate the application of effective approaches in territorial planning that can serve as valuable models.

**Conclusion.** The territorial planning scheme of the Republic of Uzbekistan is essential for ensuring the country's socio-economic development, maintaining environmental sustainability, addressing demographic changes, and advancing industrial and agricultural sectors. The issues discussed in this article provide a foundation for effective planning and implementation.

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