THE IMPORTANCE OF INCREASING ECONOMIC EFFICIENCY IN CONSTRUCTION

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Annotation: This article covers the main directions of increasing economic efficiency in the construction industry, current problems and proposals for their solution. The construction network, as one of the leading sectors of the economy, serves the development of the country's infrastructure. The use of modern technologies, rational management of financial resources and the introduction of scientific approaches to design are important in ensuring efficiency.

Key words: construction industry, efficiency, investment, technology, innovation, project management, digitization.

Annotatsiya. Ushbu maqolada qurilish sohasida iqtisodiy samaradorlikni oshirishning asosiy yo‘nalishlari, dolzarb muammolari va ularni hal qilish bo‘yicha takliflar yoritilgan. Qurilish tarmog‘i iqtisodiyotning yetakchi sohalaridan biri sifatida mamlakat infratuzilmasining rivojlanishiga xizmat qiladi. Samaradorlikni ta’minlashda zamonaviy texnologiyalardan foydalanish, moliyaviy resurslarni oqilona boshqarish va loyihalashtirishning ilmiy yondashuvlarini joriy etish muhim ahamiyatga ega.

Kalit so‘zlar: qurilish sohasi, samaradorlik, investitsiya, texnologiya, innovatsiya, loyiha boshqaruvi, raqamlashtirish.

The construction industry occupies an important place as a “driver” sector of the economy of each country. In the conditions of Uzbekistan, the volume of construction work is also increasing from year to year. However, there are a number of problems that hinder the improvement of the efficiency of the sector: outdated regulatory documents, bureaucratic obstacles, low level of technological innovation, and inefficient use of financial resources. This article analyzes these issues and suggests ways to eliminate them.

The concept of economic efficiency in construction and its importance. Economic efficiency is the ratio between the results achieved in the construction process and the resources spent on achieving them (funds, time, labor). Increasing efficiency is manifested in the following aspects:

Optimizing construction costs;

Commissioning the facility within the specified time;

Increasing labor productivity;

Using energy-efficient building materials;

Using renewable resources.

In addition, increasing economic efficiency also ensures the competitiveness of construction products.

The main factors affecting the efficiency of construction

1. Technological factors: In enterprises where modern technologies and innovations are not introduced, construction periods are extended, resources are wasted.

2. Financial management: If the level of control over financial flows in projects is low, budget deviations occur.

3. Labor resources: The lack of qualified labor negatively affects the quality of construction.

4. Regulatory and legal framework: Frequent changes in legislative documents related to the construction sector and the obsolescence of some of them slow down the investment process.

5. Design quality: Incorrect assessment of feasibility studies or the use of outdated methodologies negatively affects efficiency.

Table 1.

Efficiency of using construction technologies (conditional data)

Qurilish texnologiyasi	**Qurilish muddati (oy)**	**Qurilish tannarxi (mln so‘m)**	**Samaradorlik ko‘rsatkichi (%)**
An’anaviy texnologiya	12	1800	100
Zamonaviy monolit texnologiya	9	1550	116
BIM asosida qurilish	8	1400	129
Energiya tejamkor texnologiya	10	1450	124

Ways to increase efficiency

1. Digitalization and automation: The introduction of digital technologies (BIM – Building Information Modeling) in the construction sector allows saving resources at the design, engineering, construction and operation stages.

2. Energy-efficient technologies: The use of new generation building materials (for example, sandwich panels, aerated concrete) leads to a reduction in construction costs and energy consumption.

3. Strengthening financial discipline: Overspending is prevented by introducing strict budget control in construction projects and creating a transparent cost system.

4. Implementing projects on the basis of public-private partnerships (PPP):

This method allows for the implementation of large infrastructure projects in cooperation between the public and private sectors.

5. Training qualified personnel: It is necessary to train engineers and technicians with modern knowledge and skills through practical training programs in higher and secondary specialized educational institutions in the construction sector.

Conclusions and proposals

Increasing economic efficiency in the construction sector is not only a technical issue, but also a process that requires a comprehensive economic, social and organizational approach. The following proposals can be put forward in this direction:

Develop a separate program at the government level to encourage the introduction of digital technologies in construction;

Use methodologies based on international standards in evaluating investment projects;

Update construction standards based on modern requirements;

Develop strategic plans to increase the share of the construction sector in GDP.

List of used literature

1. Official website of the Ministry of Construction and Housing and Communal Services: https://construction.uz

2. Data from the State Statistics Committee of the Republic of Uzbekistan: https://stat.uz

3. Akhmedov A., Karimov N. "Theory of Economics" - T.: Economics, 2021.

4. Khodzhiev B.Kh., Toshboev M.T. "Macroeconomics" – T.: “Science and Technology”, 2020.

5. Nurmukhamedov Q., Saydaliyev N. “Investments and Construction Economics” – T.: Economics, 2019.

6. Normurodov Sh. “Management in the Construction and Architecture Sector” – T.: Yangi asr avlody, 2020.

7. Khasanov B., G‘ulomov S. “Methods for Assessing Economic Efficiency in Construction”, scientific article, Journal of “Economics and Innovative Technologies”, 2021, No. 4.

8. Karimov D. “Economic Efficiency of Innovative Technologies in Construction”, Journal of “Financial Analysis and Economic Research”, 2023, No. 2.