

THE ROLE AND SIGNIFICANCE OF STATE PROGRAMS IN DEVELOPING THE NATIONAL CONSTRUCTION INDUSTRY AND STIMULATING DIVERSIFICATION PROCESSES

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Abstract

This article examines the development of the national construction industry in the context of New Uzbekistan, with particular emphasis on accelerating product diversification processes in construction enterprises. Special attention is paid to improving the system of technical regulation and standardization, establishing the “Uzbekistan Building Code (UBC)”, introducing a national classifier of construction resources, and implementing the industrial mortgage mechanism as a tool of state support.

Keywords: construction industry, product diversification, innovation, digital technologies, technical regulation, standardization, UBC, industrial mortgage, national classifier.

In the context of the New Uzbekistan, priority has been given to reforms aimed at developing the national construction industry, accelerating product diversification within enterprises operating in the sector, further improving the operations of these enterprises, and introducing digital technologies into the industry. State policy in the construction sector is directed at increasing the industry's potential through the effective use of innovations, investments, labor, and material resources to ensure the successful implementation of socio-economic development programs for the country, its regions, and various sectors.

President Sh.M. Mirziyoyev has highlighted that the development of the country's construction industry today, including the diversification of products and the widespread use of innovations, is hindered by the following systemic problems:

- Regulatory documents in the field of technical regulation for urban planning are significantly outdated and do not account for modern methods of architectural and construction work or the potential for widespread use of energy-saving technologies and materials.
- The absence of master plans in most settlements, or the failure to adhere to them during the construction of buildings and structures, negatively affects integrated regional development, the placement of production and infrastructure facilities, and the growth of entrepreneurship, business, and investment activity.
- Current market trends in design and survey work often fail to create the necessary conditions for the progressive development of design and the creation of high-tech, modern, and unique architectural projects.

- Imperfect permitting procedures in urban planning, resulting in the illegal hiring of personnel for construction and installation work (without proper documentation), an increase in unauthorized construction, and a lack of necessary knowledge and qualifications among employees of construction organizations, negatively impact the investment attractiveness of the construction industry. This leads to violations of safety requirements during construction and installation, as well as in the subsequent operation of completed buildings and structures.

- The low level of implementation of modern information and communication technologies prevents ensuring maximum transparency and efficiency in the provision of public services to participants in investment processes and urban planning entities.

- The underdevelopment of applied construction science and the weak scientific, material, and technical capacity of higher educational institutions hinder the development of a system for training, retraining, and professional development of personnel.

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**Indicators of the strategic goals for the development of the construction industry of the
Republic of Uzbekistan for 2021-2025**

Indicators	2021-y	2023-y	2025-y
Harmonization of national urban planning norms and rules with international norms and standards	10 %	30 %	50 %
Ensuring the creation of four additional electronic platforms within the framework of the "Transparent Construction" National Information System.	1	2	4
Increasing the share of the "volume" method for developing design and estimate documentation to 50 percent of the total number of construction projects in the republic.	—	25 %	50 %
Inclusion of one of the higher educational institutions in the field of architecture and construction in the list of the best higher educational institutions of Asian countries (TOP-1000) in the rankings of internationally recognized organizations.	—	—	1
Achieving master plan coverage for all cities	96 %	98 %	100 %
Achieving coverage of 25 percent of urban settlements with master plans	18 %	22 %	25 %

To achieve the aforementioned strategic goals, it is necessary to improve state programs aimed at increasing the efficiency of product diversification processes at construction industry enterprises. At the same time, it is necessary to systematize regulatory documents on technical regulation in the field of construction in accordance with international standards, expand the use of innovative solutions, scientific and technical developments and digital technologies in the field, and introduce an effective procedure for pricing in construction. In solving this task. Along with determining the priority areas of state programs implemented for the diversification of construction industry products, it performs the following functional tasks:

- development, harmonization with international requirements, and creation of a fund for regulatory documents on technical regulation regarding the production of products, the introduction of innovations, and the implementation of diversification processes by construction industry enterprises;

- conducting research and development work, professional development and retraining of specialists, testing and certification of construction products, and developing pricing mechanisms for the production of construction products;

- implementation of the National Classifier of Construction Resources and maintenance of an electronic pricing platform;

- acts as the authorized state institution for the implementation of common object data environment (CDE / Common Data Environment), resource planning (ERP / Enterprise Resource Planning), and information modeling (BIM / Building Information Modeling) technologies at construction industry enterprises.

The structural components of the "Uzbekistan Building Code (UBC) " system of technical regulation and standardization are explained in the following order:

- general rules and requirements for product manufacturing - this refers to a set of rules and requirements that include general production processes for the production of imported products and their technological characteristics, which are not available in the country's construction industry market. These types of rules and requirements allow for the full and scientifically grounded acquisition of information on import-substituting products for economic entities planning to carry out horizontal product diversification within local construction industry enterprises;

- production of new products within the framework of urban planning programs - in recent years, priority has been given to urban planning in our country, and large-scale construction work is being carried out;

- special opportunities and conveniences within the framework of state strategic reforms - by forming a unified database on benefits and conveniences created for construction industry enterprises in the field of state development of the construction sector and support for the production

of import-substituting and export-oriented construction products, further simplification of the practice for economic entities to obtain information in this regard is achieved;

- vertical and horizontal structures - allow for the further development of integration relations between enterprises by incorporating information on existing projects for the mutual implementation of product diversification between construction industry enterprises, further expanding conveniences for enterprises in finding partners for product manufacturing;

- standards for external barrier structures - the formation of information on the production and operation of external barrier structures used in the construction of buildings and structures, taking into account the large-scale construction work being carried out in the country in recent years. When forming this database, it is necessary to rely on the system of international standards for external building envelopes;

- load-bearing structures - as is well known, these types of structures are among the tools widely used in construction work. Enterprises engaged in construction work establish cooperation with service enterprises in the process of using this type of structure. Therefore, the formation of requirements for the production of this type of structure, the formation of the base of enterprises providing services to local construction industry enterprises through load-bearing structures, their prices and the technological characteristics of the services provided should be provided;

- engineering sectors - when carrying out construction work, economic entities engaged in engineering activities must compile a list of products that are most in demand according to the technological regulations for construction products. This will allow for the expansion of internal investment opportunities by saving a certain portion of the costs of conducting market research in the activities of local construction enterprises;

- internal environment - it is required to prepare analytical materials on the market conditions and changes in the country's construction industry products. The preparation of this type of analytical materials leads to a significant reduction in the costs of using marketing programs in the activities of construction enterprises, expands the possibilities of obtaining information about which types of construction products are in demand for enterprises, and competing enterprises in the industry. As a result, it will be possible to improve the quality of manufactured construction industry products and optimize their prices;

- safety - it will be necessary to develop technical regulations on safety requirements for construction products based on international standards. This will increase the global competitiveness of products manufactured by construction enterprises;

- fire safety requirements - fire safety requirements for the production and use of construction industry products must be considered taking into account natural and climatic conditions.

The proposed system of technical regulation and standardization "Uzbekistan Building Code (UBC) " should be regularly improved by the Research Institute of Technical Regulation and

Standardization. This will ensure the efficiency of product diversification processes at construction industry enterprises in the country.

At the same time, increasing the efficiency of product diversification processes at construction industry enterprises requires the formation of a national classifier reflecting the quality and prices of the products they produce. The formation of this type of classifier makes it possible to prevent cases of unjustified price increases and artificial changes in product quality by economic entities in the process of entering the construction market with new types of products as a result of product diversification processes.

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