

Секция 5

ЦИФРОВАЯ ТРАНСФОРМАЦИЯ ОБЩЕСТВА: ДОСТИЖЕНИЯ СОВРЕМЕННОСТИ И ПЕРСПЕКТИВЫ БУДУЩЕГО

АНГЛИЙСКИЙ ЯЗЫК

T. Balaban

Т.Ю. Балабан

БНТУ (Минск)

Научный руководитель О.С. Голубова

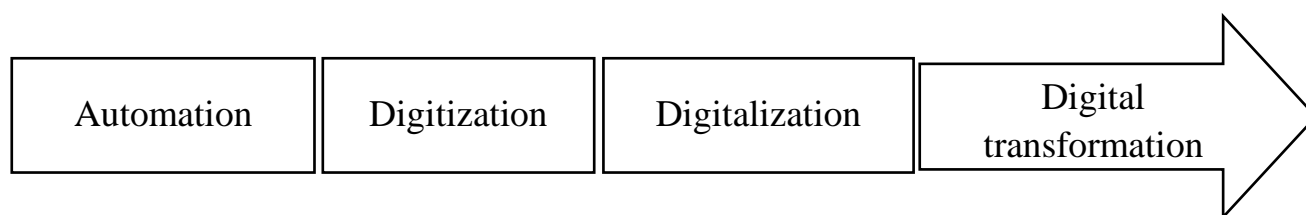
ASSESSMENT OF THE LEVEL OF DIGITAL MATURITY OF ORGANIZATIONS WORKING IN CONSTRUCTION

Оценка уровня цифровой зрелости организаций, работающих в строительстве

The purpose of this work is to study the current state of digitalization of the construction industry of the Republic of Belarus. Active transition to digital technologies, implementation of artificial intelligence in all spheres of life stimulates organizations to increase the level of digital maturity.

Digital maturity of construction organizations is understood as the ability of the organization to implement and apply innovative technologies in practice in order to increase production productivity and achieve financial success. The transition

to a digital environment of the organization is carried out through the digitalization of all business processes of the enterprise, the development of digital architecture, the implementation of ERP management systems for communication with suppliers and the customer base. The stages of digitalization development are shown in the figure.



Stages of digitalization development

Automation is characterized by the improvement of methods and technologies for the design, construction and operation of real estate.

Digitization is understood as the conversion of analog data into digital form, scanning paper documents and storing them electronically on the «digital cloud». Today, design and construction organizations are actively digitizing archives and creating databases that allow them to use the accumulated experience of successful construction.

Digitalization includes design based on data analysis, big data analytics, development and implementation of a corporate information system for automating business processes based on the 1C ERP platform, etc.

Digital transformation is the final stage, the purpose of which is the transition to a digital enterprise architecture, the implementation of digital business models, the use of artificial intelligence and Internet of Things technology. The development strategy of the construction complex of the Republic of Belarus until 2035 provides for the progressive growth of organizations using artificial intelligence technologies, BIM technologies, ensuring an increase in digital maturity (table).

The share of organizations using artificial intelligence technology in the total number of organizations by type of economic activity, %

Score	Prediction				
2025	2026	2027	2028	2029	2030
3,2	3,6	3,9	5	8,5	12,2

Based on the data of the Strategy for the Development of the Construction Complex of the Republic of Belarus until 2035, we can observe that the predicted assessment of the introduction of artificial intelligence until 2030 will increase 4 times, which indicates a progressive transition of the construction industry of the Republic of Belarus from the stage of digitalization to digital transformation.