

Bogacheva M. N., Zelentsov L. B., Triputa I. G. (Ростов-на-Дону, Россия). Stochastic analysis of adaptive organizational and technological models in management of ICP.

Analysis of the status of existing investment management systems of investment and construction projects (ICP) in Russian Federation allowed to conclude that the models used at the stage of preparation of construction production and scheduling are static and reflect the organizational and technological solutions only at the time of the conclusion of the contract for the construction of the object.

Stochastic analysis of adaptive organizational and technological models in management imposes quite concrete requirements to the initial data, in case of failure of which the accuracy of forecasting cannot be guaranteed.

We proposed a methodology for the development of IT technologies that, at the operational planning stage, covering the month, week, day, use organizational and technological models (OTM), where information on structural elements, if necessary, can be disaggregated to the level of detailed work and processes. Adaptivity of OTM used in the building of the construction object, is provided by the use of special algorithms for the collection, processing, disaggregation, aggregation of planned and actual information on the work, the calculation of deviations between the actual characteristics and the planned values, development and decision-making for bringing the model to the organizational and technological normal.

1. *Zelentsov L.B., Mailyan L.D., Triputa I.G.* Time management parameters in complex dynamic construction systems, *Ingenernyj vestnik Dona (Rostov-on-Don) №1*, 2015
2. *Бондаренко А., Чулков А.* Project forecasting and management, "Project management №1-2(28)", 2013