

**PRINCIPAL MODEL OF SYSTEM OPERATION FOR INVESTMENT
IN REGIONAL DEVELOPMENT**

The authors propose the model of the condition and operation system of investment in regional development based on the discrete Markov processes. It allows defining and comparing the probabilities of the system to be in one of its typical conditions and to plan steps of this development more efficiently. Investment system conditions depend on many factors. These factors are purely coordinated. The model facilitates the solution of the problem also under the conditions of accidental and antagonistic type ambiguities.

The logical analysis determined the reasonable range of basic conditions of the system. They include: «prearrangement of the legal basis and setting up the infrastructure for investments»; «growth in the investment rate»; «investments termination»; «adjustment of the legal basis and supplementary infrastructure development».

The graph was drawn up to show the transitions of the investment system in all its conditions. The probabilities of the investment system being in each condition during equally intensive and equally probable transitions of the system are estimated.

The discrete Markov functioning processes instrument was applied in order to analyze the investment system.

It has been found that that the most probable system conditions are: «increase in the investment rate»; «investments termination».

The ways to increase by several times the probability of the system being in the «growth in the investment rate» condition have been established.

It's advised to use the model on application of the *compromise theory for decision-making*, published by the authors in the «Bulletin of the Nobel International Economic Forum» earlier.