SIMULATION MODELING OF REGIONS' SOCIAL AND ECONOMIC DEVELOPMENT IN DECISION SUPPORT SYSTEMSS

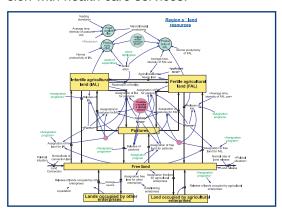
STATE UNIVERSITY OF MANAGEMENT

Analysis and forecasting of the region's resource potential. Natural resources. Demography, labour resources. Regional economy. Agriculture. Social sphere.

SAMPLE MODELS

System and dynamic model of health care

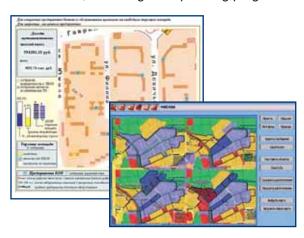
- analyzing demographic tendencies, morbidity dynamics and population living standards; analyzing social, territorial, ecological and other risk factors;
- analyzing and forecasting financial condition of compulsory health insurance system;
- strategic planning of material, financial and staffing needs of health care system; reorganizing network of prevention and treatment facilities;
- analyzing and forecasting population provision with health care services.



Simulation models for housing and communal utilities

- analyzing housing stock condition and performance of housing and communal utilities and supporting infrastructure;
- planning budget expenditures of the city including housing stock maintenance, renewal and construction in order to improve population provision with dwelling;
- analyzing business activity of construction and maintenance enterprises and investment processes when constructing housing stock and infrastructure;

 analyzing condition of land resources of urban territories, validating town-planning programs.



Pension System Simulation Model

- analyzing financial sustainability of the Pension Fund;
- analyzing and forecasting average labor pension size;
- scenario modeling of allocation of pension savings between financial market segments and forecasting changes in profitability of the total investment portfolio as the result of changes in its structure;
- analyzing changes in amount of pension savings;
- analyzing financial market impact on investment portfolio profitability and amount of pension savings.

Solutions for municipal authorities

- situation analysis when reorganizing industrial districts of the town based on the simulation model:
- town-planning policy and allocating various functional objects on the territory using territorial maps and multiagent simulation models.

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Modeling toolkit

- developing extensive econometric models;
- scenario forecasting;
- optimization and optimal control tasks;
- forward-looking dynamics;
- simulation modeling.

Economic models and approaches

- Input-output balance model;
- modeling general economic equilibrium;
- high-frequency modeling;
- algorithms to provide automatic selection of econometric models.

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