

# PRINCIPLES OF CONSTRUCTION INFORMATIVELY-ANALYTICAL SYSTEM ECOLOGY-ECONOMIC TERRITORIAL'S DISTRICTING OF UKRAINE

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On this stage of development of economy as sciences are needed developments of modern informatively-analytical systems which simplify monitoring of indicators of steady development.

Working out of strategy, plans, sustainable development programs at all levels of management should lean against full and adequate display of dynamics of development ecology-economic system in each separately certain unit (set of units) administrative-territorial device against corresponding integrated indicators (indicators) on the country. It provides necessity of target supervision and the comparative analysis of a significant amount of factors and indicators by working out and realization of strategy of a sustainable development of regions. Sustainable development indicators are necessary to provide well-founded criteria of decision making at all levels, guaranteeing firmness self-regulation ecological-economic system.

Ranging of a condition of territories behind a level of development allows us to form system of effective actions of the management directed on maintenance of a sustainable development of the state. Mathematical methods of monitoring of indicators are necessary for working out of modern information systems of the territorial analysis and distribution of territories behind a level of development.

Territorial's districting on the level of development, as we can see on figure 1, passes the next stages:

- user must choose the indicators of steady development for an analysis;
- cross-correlation analysis by means of which we determine the presence of intercommunication between indicators.

The coefficients of correlation settle accounts on a formula:

where :  $\bar{x}$  - conformable element of indicator;  $\bar{y}$  - arithmetical mean elements of indicator;  $S$  - sum of indicator's elements;  $n$  - amount of all elements;  $i, j$  - indexes of indicator's corresponding elements .

- data which we investigate can be arcwise dependent. By means of multicollinear analysis we it will eliminate.
- regressive analyst's essence consists of influence's determination of separate independent variables on a change dependent.
- a cluster analysis is needed for territorial's dividing by groups (clusters) on general signs.
- on the basis of the conducted analyses, we can divide Ukraine by cluster after the levels of development.

Fig. 1. Structure informatively-analytical system

Above-mentioned informatively–analytical system can be used as a "adviser" of person which makes decision, for the grant of maximally objective information at planning and realization of organizational decisions in the field of management the territorial systems, sent to the active management the parameters of both the actually controlled territory and by parameters, for example, of the normatively-legal adjusting, that set on higher, in relation to territorial education, hierarchical levels.