

СЕКЦІЯ 5

ПЕРСПЕКТИВИ ЗАСТОСУВАННЯ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ ДЛЯ РОЗВИТКУ МІСЬКОЇ ІНФРАСТРУКТУРИ

Керівник секції – канд. екон. наук, доц. В. В. Тітяєв
Секретар секції – канд. екон. наук, доц. В. В. Гриненко

THE ROLE OF INFORMATION TECHNOLOGIES INTO INTEGRAL ECONOMICS OF MAN

GEORGIY V. KOVALEVSKIY,
Honored Professor of O.M.Beketov National University
of Urban Economy in Kharkiv,
Full Professor of the Kharkiv National University of V. N. Karazin,
The Doctor of Science (economics), Kharkiv, Ukraine.
*O. M. Beketov National University of Urban Economy in Kharkiv, 17, Marshala
Bazhanova St, Kharkiv, 61002, Ukraine
georgiy_kovalevsky@ukr.net*

The new systems which are worked out by us and named as "integral" summarize all most essential systems which are needed for the most effective development of economics. The integral systems were developed by us during many years. It was succeeded to integrate the systems of major methods and models in paper "To systems analysis - system of methods" in 1978 and in subsequent years and all other systems of the single integral system [1, pp. 35-43] (more detailed see our works: [1, pp. 150-180]; [2, pp. 57-67]; [3, pp.29- 37]).

The integral system is a complex of the organically associated, purposefully formed and used elements, local systems which are intended for the solving of major problems of economic and social spheres of life of a human being.

The recommended integral system (S_i) integrates all integral systems which are needed for effective development of an economy:

$$S_i = \{ \{S_1\} \rightarrow \{S_2\} \rightarrow \{S_3\} \rightarrow \{S_4\} \rightarrow \{S_5\} \rightarrow \{S_6\} \rightarrow \{S_7\} \rightarrow \{S_8\} \rightarrow \{S_9\} \rightarrow \{S_{10}\} \\ \rightarrow \{S_{11}\} \rightarrow \{S_{12}\} \rightarrow \{S_{13}\} \rightarrow \{S_{14}\} \rightarrow \{S_{15}\} \}, \quad (1)$$

where S_i is the integral system of effective development of economy; $\{S_1\}, \{S_2\}, \dots, \{S_{15}\}$ are fifteen integral systems of the single integral system of effective development of economy.

We describe each of the 15 integral systems: 1. $\{S_1\}$ is the system of goals; 2. $\{S_2\}$ the system of applied resources; 3. $\{S_3\}$ – the system of limitations; 4. $\{S_4\}$ the system of priorities; 5. $\{S_5\}$ – the system of information. This system includes: 1) the subsystem of communications tools (computer systems, integral system of software, wire and wireless lines etc.); 2) the subsystem of personnel; 3) the subsystem of

information users; 4) the subsystem of criteria (tests) for selection of the most important information (for realization of assigned goals $\{S_1\}$); 5) the subsystem of data acquisition methods (Internet, call-in and questionnaire polls, private interview, self-interview, statistical sampling, financial and tax accountancy etc.); 6) the subsystem of the most important integrating information; commonly this information is fixed as the most important summarizing indexes, which maximally accurately and correctly characterize the modeled phenomena and processes (for example, as indicators); 6. $\{S_6\}$ the system of obtained information analysis. This system integrates: 1) the subsystem of models of the previously selected summarizing indexes (indicators); 2) the subsystem of analysis methods for previously developed summarizing indexes, models; 7. $\{S_7\}$ the system of personnel professionalism level; 8. $\{S_8\}$ the system of legal (juridical) development support of efficient human development; 9. $\{S_9\}$ the system of psychological support of efficient human development; 10. $\{S_{10}\}$ the system of initial programs (plans) and forecasts for efficient development of human economy; 11. $\{S_{11}\}$ the system of trial implementation of developed programs and actions for efficient development of economy; 12. $\{S_{12}\}$ the system of final optimized programs and actions; 13. $\{S_{13}\}$ the system of implementation; 14. $\{S_{14}\}$ the system of control over realization of assigned goals (results) in development and implementation of final projects, programs, forecasts and actions for efficient development of human economy; 15. $\{S_{15}\}$ the system of results. Obtained results are fixed as a system of executed targeted indicators of economic and social efficiency of human economy development.

The integral system includes all 15 major integral systems, which are needed for effective development of economy of a country, a region, a city, an economy of a company, an organization etc. Purposeful integral application of the complementary each other integral systems of the economic, informative, manager's, legal, psychological and social support can substantially increase the efficiency of all types of activities. Thus for the solving of every problem the integral system (1) is reused, every time filling it with specific 15 integral systems $\{S_1\}$, $\{S_2\}$, ..., $\{S_{15}\}$, which correspond to the features of the solved problem and characteristics of the research object.

References:

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