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## FORMATION OF ECOLOGICAL AND ORIENTED SYSTEM OF INNOVATION AGROINDUSTRIAL PRODUCTION

*Annotation.* In the article reasonably the economic principles of formation of ecology-oriented system of innovative development of agricultural production; defined measures to enhance scientific and innovative development at the regional level; highlighted the role of organizational measures to transfer innovation in eco-oriented agricultural production.

*Keywords.* Ecological-oriented system, innovative development, agricultural production.

### I. Introduction.

Ecological-oriented system of innovative development of agricultural production in all countries of the world based on a strategy that justifies the subordination of the interests of producers and consumers of agricultural produce on national interests; use of clean technologies in production to improve product quality and prevent pollution; possibility of positive changes in the environment, taking into account the potential increase agricultural production.

Activation of Ukraine in foreign markets, integration efforts towards the European Union require, above all, the transition for the application of modern techniques and innovation indicators determine the state of the economy in general and agriculture, as well as the need for further scientific developments and their justification.

As for agricultural production, the problems of its innovative development work dedicated A.M. Vishnevskaya, M.I. Kisil, V.V. Lypchuk, J.O. Lupenko, V.I. Melnyk, V.P. Nagornaya, B.I. Pashaver, P.T. Sabluk, V.P. Sytnyk, N.M. Sirenko, I.I. Cherven, V.S. Shebanin, L.D. Yatsenko and others. Now the important question remains activation of innovative processes in the domestic economy, and with it the full use of the powerful potential of science in the process of modernization of agricultural production in the principles of environmental factors.

### II. Statement of the problem.

The purpose of the article is justification for economic basis of formation of ecologically-oriented system of innovative development of agricultural production; identify measures to intensify scientific and innovative development at the regional level;



determining role in the transfer of innovation-oriented agro ecological production and implementation sequence definite process.

### III. Results.

Need to move economic development of the principles of greening, primarily due to those historical changes that occur in all regions of the world. Anthropogenic pressure on specific regions already reached critical signs, that is why you need to pay more attention to those factors and resources that contribute to the welfare of society and, unfortunately, destroyed beyond recovery.

The focus on the growth of the economy only leads to negative externalities – namely, rising pollution and intensive use of natural resources, which in turn leads to a decrease in natural assimilative capacity. It is clear that such relationship between the natural and economic systems lead to serious environmental threat [1].

Therefore, regional priority measures to be implemented:

- Formation of the system of local sources of funding research, development work and innovation, including special funds to support regional programs provide a legal mechanism of their formation and use;
- The creation of regional scientific-industrial, information, certification and other centers, consulting agencies, etc;
- Creation of experimental areas of scientific and technological development activities are based on the active use of the advantages of eco-based system for managing the innovation process.

Environmental safety Ukraine's agriculture depends essentially on the economic system, the basic principles governing action by government agencies for the development of agriculture and agricultural environmental management, as well as activities. These principles include primarily regulatory mechanisms in the legal and economic spheres that create conditions for the implementation of the economic efficiency of agriculture and ensuring environmental safety [2].

The economic mechanism of environmental safety can be viewed as a system of organizational and economic measures related to nature and the environment, which means that inter-organizational administrative and economic measures. So, planning, development, administration, implementation and monitoring of targeted programs of nature are carried out using the mechanism of environmental safety. They are elements of the economic impact [3].

The development and implementation of effective public science, technology and innovation policy need some improvement in the management of research, development work and implementation of innovations.

The experience of developed countries shows that a necessary condition for the successful implementation of the state policy on ecological security and industrial area at the international, regional and national levels is a comprehensive analysis of trends and changes in the nature of the major threats to environmental safety for timely and



reasonable definition of preventive measures and impact mitigation when they are. Objective and timely identification of the most significant threats and risks in this area is an important prerequisite for making effective management decisions to ensure environmental security system [4, p.135].

Key measures should be aimed at reforming the central authorities along functional lines, providing structural completeness of their powers, a clear definition of objectives and the rights of the coordinating mechanism of their interaction with each other and with other bodies of executive power.

At the regional level should establish scientific coordination council or board of promoting innovation in regional administrations. These councils should reinforce links between local authorities and regional research centers of the National Academy of Sciences of Ukraine, central executive body in the field of science and intellectual property, a reasonable definition of priorities in the field of scientific and technological development in the regions fuller involvement of scientific and technical potential for resolving the problems in the field, the formation and implementation of regional socio-economic and scientific-technical programs, major innovation.

The fact, as the dynamics of innovation processes in Ukraine is slowing and a decline in innovation of domestic enterprises. The lack of effective organizational and economic mechanism of scientific and technological innovation and economic development and agriculture in particular, should be considered a major obstacle to the activation of innovative processes, the transition of the domestic economy to an innovative model of development and implementation of effective strategies in the context of integrated agricultural production.

Summary and analysis of the results of research conducted in the National Scientific Center «Institute for soil science and agrochemistry research named after O.N. Sokolovsky» possible to determine the general scheme of preparation for technology transfer to, which consists of ten basic steps. And the first three stages are regarded as decisive as aimed at establishing the feasibility of establishing and promote a particular technology, and preliminary analysis of the market prevents a lack of demand development and no excuses investments.

In view of the above and conducted researches order and sequence of training and technology transfer to their constituents, which consists of the following stages [5]: the examination; Patent tactical research; marketing research; financial and economic analysis; providing legal protection; state examination and registration of technology transfer agreements technologies; promotion strategy; information security; business training project; scientific support.

The main tasks of scientific support during the transition to eco-oriented agro-industrial production are:

- The theoretical and methodological tools of transition to ecologically-oriented type of development;
- Development of methodological principles and methods of study ecological and economic assessment of losses from economic activity;

- Development of eco-efficient and energy-saving technologies, industries, commodities, materials, products and equipment, including their impact on the environment in agriculture;
- The study of biological systems for sustainability and environmental safety;
- Development of scientific principles and technologies using renewable biological resources to ensure their sustainable reproduction;
- Development of principles of fixed natural resources to preserve the environment;
- Development and implementation of appropriate control methods and reduce the negative effects of these processes;
- To provide a basis the definition of environmental risks in order to create a quality management system environment;
- The development of tools and methods of prevention and elimination of pollution, environmental rehabilitation and disposal of hazardous waste.

The identified problem caused by the need to transfer evidence-based innovations and scientific advisory software that provides:

- Forming of completed scientific projects recommended for development in agricultural production regions;
- Development of scientific and technology consulting and information support innovative projects;
- Development of technical standards for scientific advice and information to ensure the transfer of innovation in agricultural production regions.

Scientific and organizational principles of transfer of innovation in ecologically-oriented agro-industrial production based on:

- The development of scientific and organizational principles of marketing, innovation transfer in agricultural production regions accordance with technological and environmental safety;
- Forming a package of innovations for agriculture production;
- Developing the scientific foundations of innovation providing infrastructure in the regions;
- An efficient scientific support innovative projects in the agricultural farm regions.

#### **IV. Conclusions.**

Ensuring environmental-oriented approach to meet the food needs possible with improving the quality of agricultural products, and for effective and efficient use of resources companies and their natural reproduction.

In order to improve management in the field of agriculture production and transfer of innovation and development necessary to develop modern methods of environmental monitoring, and information technology.

Development should take the science that deal with scientific research and development institutions and structural units of enterprises, institutions and organizations,



industrial, agricultural and other industry associations, conducting research work on measuring the extent of environmental safety.

Scientific research and development institutions and structural units of enterprises, institutions and organizations, industrial, agricultural and other industry associations that conduct research work should receive a significant financial incentive for the development of the scientific field in which they work.

They also have the gain of organizational and legal foundations of structures that combine research process of the production and marketing of new products, especially those that were formed on the basis of regional scientific and technical centers, especially techno and industrial parks.

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