

Ministry of Education and Science of Ukraine
Sumy State University
Oleg Balatskyi Academic and Research Institute
of Finance, Economics and Management

SOCIO-ECONOMIC CHALLENGES

Proceedings
of the International Scientific and Practical Conference

(Sumy, November 3–4, 2020)



Sumy
Sumy State University
2020

330.3:005(063)

S62

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S62 Socio-Economic Challenges : Proceedings of the International Scientific and Practical Conference, Sumy, November 3–4, 2020 / edited by Prof., Dr. Vasilyeva Tetyana. – Sumy : Sumy State University, 2020. – 511 p.

Proceedings of the International Scientific and Practical Conference "Socio-Economic Challenges" are devoted to finding a systemic solution to multidisciplinary problems in the field of modern development, management, administration of various systems, corporate social responsibility, innovation management in various fields of environmental management.

For scientists, scientists, students, graduate students, representatives of business and public organizations and higher education institutions and a wide range of readers.

330.3:005(063)

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ORGANIZATIONAL AND ECONOMIC MECHANISMS FOR ENVIRONMENTALLY SAFE AGRICULTURAL LAND USE

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The growing needs for productive and sustainable environmentally safe and balanced agriculture is leading to the need for a new vision for the development of agrarian nature management and, in particular, for resource-saving land-use [1-4]. This position requires understanding of the ecological principles of agriculture, as well as the formation of organizational and economic mechanisms of agrarian ecosystem management [59].

We define the *organizational and economic mechanism of ensuring the environmentally safe and balanced agricultural land use* as a complex system of forms, methods and tools of organizational, economic and social influence on the environmental behaviour of agricultural entities in the direction of increasing socio-ecological and economic efficiency of use, reproduction, protection and conservation of land-resource potential, as well as the effectiveness of the functioning of agro-natural and land capital.

The general purpose of the organizational and economic mechanism is the effective organization of reproductive processes in the use, reproduction, protection and conservation of land-resource potential and the functioning of land capital based on the ecosystem approach to the regulation of agricultural management.

An integrated function of the organizational and economic mechanism of ensuring environmentally safe and balanced land use is the harmonization of socio-ecological and economic needs and interests of economic entities, society as a whole in the process of practical implementation of the principles of environmentally safe and balanced organization of sustainable land and resource potential use, the functioning of land capital, as well as the resolution of contradictions and certain ecological-economic conflicts [5-22, 59].

The formation of an organizational and economic mechanism for ensuring environmentally safe and balanced agriculture involves the interaction of the regulatory subsystems of the external organizational and institutional mechanism and the internal mechanism of agricultural enterprise management, using the principles and tools of ecosystem management that provides motivation for environmental behaviour [23, 24].

The determining component of the organizational and economic mechanism for ensuring environmentally safe and balanced agricultural land use is *the result-oriented subsystem*, which can be an integral result of the interaction of

the external mechanism with the internal one and determines the economic, environmental and social results of management.

External organizational and institutional mechanism of environmentally safe and balanced agricultural land use includes providing institutional and resource subsystem (sub-mechanism), subsystem (sub-mechanism) of organization and regulation of environmentally safe and balanced agricultural land use, controlling subsystem.

Supporting institutional-resource subsystem (sub-mechanism) includes regulatory, resource (financial, information, human resources), infrastructure (in particular, it concerns the activity of credit institutions, innovation-investment funds, environmental insurance companies and consulting agencies) security [59, p. 243].

The subsystem (sub-mechanism) of the organization and regulation of *environmentally safe and balanced agricultural land use* is aimed at the implementation of mechanisms of state regulation of land relations, as well as programming and planning of protection and conservation of lands at national and regional levels.

The subsystem of control within the external organizational and institutional mechanism of regulation of environmentally safe and balanced *agricultural land use* should have a *program-oriented focus* on ecological and economic indicators of agrarian land management on an ecosystem basis. For example, it requires monitoring the eco-destructive state of the land-resource potential, control over the ecological quality of agricultural products on a logistical basis, etc [59].

It is important to emphasize that the practical reproduction of the prerequisites for environmentally safe and balanced *agricultural land use* is ensured by creating a favourable economic environment for the organization of ecosystem-based agricultural management. Harmonization of economic interests of agricultural business structures with ecological and economic interests of the state and regions requires the development of not only administrative and regulatory mechanisms, but also the formation of effective motivational and incentive systems. The administrative and regulatory subsystem is aimed mainly at creating a system of restriction of eco-destructive economic activity in the process of land management, in particular, through the application of ecological expertise, external eco-audit, as well as environmental certification of agricultural enterprises, etc.

Available conceptual and methodological approaches [25-27] to the creation of incentive factors, mechanisms, and levers of ecological and economic regulation of rational nature management are divided into the following types of instrumental support [28]:

1. Focused on compliance with rules, requirements, norms of rational nature management and the implementation of the obligatory system of environment protection measures (in particular, normative regulation, penalties, payments for the environmentally destructive state of natural objects).

2. Promoting the implementation of environmental activities (in particular, the environmental tax system and payment system for the use of natural resources, and financial incentives).

3. Incentive, aimed at supporting economic entities to implement environment protective (environmental) measures (subsidies, preferential crediting and taxation, special funding).

In this context, particular attention should be paid to the compensation mechanism for the afforestation of agricultural lands, which includes economic incentive tools important for encouraging environmentally balanced use and protection of agricultural lands based on the creation of protective forest plantings. These tools relate to the measures of economic impact aimed at changing the financial and property status of entities of agrarian land use in order to equalize the imbalance between ecologically balanced, environmentally safe agribusiness within a certain agricultural landscape.

Compensatory and stimulating mechanism of agrarian natural management with an emphasis on the issues of agroforestry production may include the following components [29-34]:

1. Partial reimbursement of the lost revenue, in particular, in the form of rent payments in the case of conservation of land, depending on their intended purpose and degree of degradation.

2. Payments for the increase of soil fertility and reduction of their pollution due to agroforestry improvement of agricultural lands.

3. Subventions (grants) for the production of environment-friendly agricultural products under the conditions of the land arrangement on the agricultural forest reclamation basis.

4. Some compensation (reimbursement) of expenses for carrying out works on the conversion of the intended use of land within the limits of expansion of the agroforestry reclamation complex.

5. Compensation (reimbursement) of capital and current expenses for the implementation of investment agroforestry projects.

It is important to focus on the environmental taxation systems and environmental policies and payments for nature conservation from the perspectives of agroforestry spatial development [35, 36].

Thus, the development of an organizational and economic mechanism for ensuring environmentally safe and balanced agrarian farming should be carried out on the basis of enhancing the environmental behaviour of business-entrepreneurial structures under the influence of an external organizational and institutional mechanism, which should exert a dynamic regulatory influence on the internal mechanism of the entity [37, 38]. The theoretical and methodological orientations for the construction of organizational and economic mechanism of agrarian nature

of the economy allow to form the systematic management processes for the greening land use at different spatial levels of management.

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Наукове видання

СОЦІАЛЬНО-ЕКОНОМІЧНІ ВИКЛИКИ

Матеріали Міжнародної науково-практичної конференції

(Суми, 3–4 листопада 2020 року)

Стиль та орфографія авторів збережені.

Організаційний комітет і редакційна колегія можуть не поділяти точки зору авторів.

Автори відповідають за точність, достовірність і зміст матеріалів.

Посилання на матеріали конференції обов'язкові.

Відповідальний за випуск Т. А. Васильєва

Комп'ютерне верстання С. В. Миненко

Формат 60×84/16. Ум. друк. арк. 29,86. Обл.-вид. арк. 38,58.

Видавець і виготовлювач

Сумський державний університет,

вул. Римського-Корсакова, 2, м. Суми, 40007

Свідцтво суб'єкта видавничої справи ДК № 3062 від 17.12.2007.