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REGULATIONS OF THE AGRICULTURAL SCIENTIFIC SPACE AS INSTRUMENTS OF SUSTAINABILITY AND DEVELOPMENT: HISTORICAL AND METHODOLOGICAL DIMENSION

Summary

The relevance of the topic is determined by the need for scientific rethinking of the regulations of the agricultural space as a system of interrelated norms, institutions, practices, and knowledge that were formed in different historical periods and determined the trajectories of the agrosphere's development. Of particular importance is the historical and methodological dimension of the problem, which allows us to trace the genesis of regulatory instruments, identify their adaptability to crisis conditions, and assess the potential for using this experience in the modern context. For Ukraine, which is undergoing profound socio-economic and military transformations, such research is an important basis for the formation of a sustainable model of agricultural development and ensuring food security in the long term.

The purpose of the article is to conduct a historical and methodological analysis of agricultural space regulations as instruments for ensuring the sustainability and development of the agricultural sector in the context of the transformation of the modern scientific and socio-economic environment. The study aims to identify their potential in combining traditional agricultural practices with modern digital and algorithmic solutions.

The methodological basis of the study consists of problem-chronological, comparative, and projective methods, which made it possible to trace the evolution of agricultural regulations in relation to the environmental, economic, social, and cultural dimensions of the development of the agricultural sector. In addition, an interdisciplinary

approach was applied, combining the history of science, agricultural economics, the philosophy of sustainable development, and modern concepts of digital transformation.

The study found that agricultural space regulators act as integrative mechanisms that combine the environmental, economic, social, and cultural dimensions of agricultural activity and ensure continuity between traditional forms of farming culture and innovative practices. It has been substantiated that in the context of the digitalization of the agricultural sector, regulators act as mediators between tradition and innovation, promoting the introduction of digital platforms, big data, algorithmic and artificial intelligence solutions into the paradigm of sustainable development. It has been proven that understanding regulations in the noosphere-agricultural context creates the basis for the formation of resilient agricultural systems capable of combining inexhaustible development trends, the potential of agricultural thinking, and the transformation of productive activity algorithms in accordance with modern challenges and threats.

A comprehensive understanding of historical regulatory practices combined with modern methodological approaches creates a scientific basis for the formation of effective strategies for the development of the agricultural sector. Such strategies should be aimed at achieving a balance between economic interests, social stability in rural areas, and the preservation of natural resource potential. Therefore, historical and methodological analysis is not only an analytical tool for knowledge, but also an important factor in increasing the adaptability, predictive validity, and scientific soundness of management decisions in the agricultural sector.

The practical significance of the results obtained lies in the fact that the regulations of the agricultural space, formed at different historical stages of the development of agricultural science and economic practice, can be used as a conceptual basis for the development of modern models of sustainable agricultural development. This is particularly relevant in the context of global challenges – climate change, land degradation, the worsening food problem, and the need to preserve biodiversity, which requires historically verified and methodologically sound solutions.

Keywords: *agrarian space, regulations, agrosphere, history of agrarian science, methodology of scientific research, interdisciplinarity.*