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FOOD SECURITY IN THE SYSTEM OF QUALITY MANAGEMENT IN THE DIGITAL AGRO-INDUSTRIAL COMPLEX

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The quality management system of the digital agro-industrial complex has its specifics connected with the features of the agricultural production processes and problems farmers have to solve, given the risks peculiar to the sector. Accordingly, universal digital technological solutions are not always compatible with the systems of quality management of farms. The high level of accounting of these sectoral specifics is the basis for ensuring high parameters of the quality of agricultural products and raising or retaining yield and environmental sustainability. Growth of yield and parameters of quality determines the possibilities for raising the food security of countries and different areas. Formation of food security is a factor in the development of the agro-industrial sector, while another factor, directly connected with the first one, is the level of digitalisation of processes. In this paper, we analyse digital models of quality management systems of the participants of the digital agro-industrial complex in the selected developed countries. We reveal a range of digital models used by the leading participants of the agrarian market, namely the model of technological support of the

open type, the model of production and technological support, and the network technological model. The analysis showed that each model has its advantages and specific features. The effectiveness of their application is predetermined by the high level of integration into the agro-industrial market of territories in which economic activities are conducted, and given the stakeholders' interests. The goal of this paper was to establish the directions for ensuring food security in the system of quality management in the digital agro-industrial complex of various countries of the world. To achieve this goal, we used the method of induction, comparative analysis, and context analysis. The scientific novelty of this research is due to revealing the specifics of the digital models of the digital agro-industrial complex participants in various countries, which contribute to the sectoral development. © 2025, Centar for Quality. All rights reserved.

Ключевые слова автора

digital agro-industrial complex; food security; low-carbon technologies; network technological model; product value creation chain; quality management system; sustainability; yield

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