

Global digitalization as an organizational and economic basis for the innovative development of the agroindustrial complex of the Russian Federation

Anatoly I. Altukhov, Academician of RAS, Dr. of Sci. (Econ.), Professor
e-mail: aashutkov@yandex.ru

Mikhail N. Dudin, Dr. of Sci. (Econ.), Professor
e-mail: dudinmn@mail.ru

Alesya N. Anishchenko, Cand. of Sci. (Econ.)
e-mail: anishchenko-an@mail.ru

Abstract

Subject/topic. The article defines the concept of digitalization and substantiates the essence of digitalization for the development of agriculture. It is shown that Russia has a significant scientific and resource potential for the development of the digital economy, including modern Russian agriculture. **Goals/objectives.** The aim of the study is to analyze current trends and promising directions of development of the digital economy in the Russian agriculture, as well as the feasibility of the introduction of digital technologies in the agricultural sector of the Russian Federation. **Methodology.** The article uses a set of research methods: content analysis of scientific sources, statistical analysis of data on the scientific and technological development of domestic enterprises, environmental friendliness and energy intensity of production. The study of the process of global digitalization of agriculture in Russia was carried out within the framework of a systematic approach, which allowed to identify the main development trends, identify the driving forces and limitations of development, advantages and disadvantages. The database of research was the official statistics, as well as the results of the authors' own research on this topic. **Conclusions/relevance.** The results suggest that in the short term we should expect a change in the traditional vector of development in agro-industrial production in the direction of science-and intellectual trend of the organization of production processes using digital technologies. The authors believe that foreign experience in the implementation of digital technologies can be sufficiently effectively used in the Russian agro-industrial complex, whose enterprises objectively need to improve the efficiency of their activities. In modern conditions for effective and cost-effective farming it is necessary to switch to the latest technologies of agricultural management using artificial intelligence, GNSS-and GIS-technologies.

Keywords: *digitalization, agro-industrial complex, agriculture, neural network technologies, artificial intelligence, innovative development, productivity*

About authors

Anatoly I. Altukhov, Academician of RAS, Dr. of Sci. (Econ.), Professor, All-Russian Research Institute of Agricultural Economics, Moscow.

Mikhail N. Dudin, Dr. of Sci. (Econ.), Professor, Deputy Director, Market Economy Institute of RAS, Moscow.

Alesya N. Anishchenko, Cand. of Sci. (Econ.), Head of Lab, Market Economy Institute of RAS, Moscow.

For citation

Altukhov A.I., Dudin M.N., Anishchenko A.N. Global digitalization as an organizational and economic basis for the innovative development of the agroindustrial complex of the Russian Federation //Market economy problems. - 2019. - № 2. - Pp. 17-27 (In Russian).

DOI: <https://doi.org/10.33051/2500-2325-2019-2-17-27>