The sixth major cycle in the development of the world economy: the era of NBIC-convergence in agroindustrial complex

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Abstract

Subject/topic. NBIC convergence is a technological reality in the sixth big cycle of N. Kondratiev. The article analyzes the global and Russian trend of NBIC-convergence, its impact on the technological way of economies. ***Goals/objectives.*** The aim of the article is to study the global and Russian trend of NBIC-convergence in the context of the sixth big cycle of N. Kondratiev. ***Methodology.*** This article uses an interdisciplinary approach to the study of the essence of NBIC-convergence in the context of the sixth large cycle, as well as empirical, systematic, analytical, economic and other research methods. ***Conclusions/significance.*** In the article the authors prove that NBIC-convergence is of great theoretical and practical importance for all sectors of the national economy, including agriculture. However, as it was revealed, at present the nature of digitalization, introduction of NBIC-technologies is of a point nature, they are mainly used in large agro-industrial holdings. As for small forms of management, the processes are almost not started. One of the limiting factors is the high price of digital technologies. The main role in the development of NBIC-convergence, digitalization of agroindustrial complex of Russia should be played by state programs to support subsidizing the development of domestic similar systems and regional and sectoral programs in the field of digitalization. ***Practical significance.*** The findings and results of the study can be used in the development of the strategy of scientific and technological development of Russia.

The article is prepared within the framework of the state task of the IPR RAS, the theme of research «Socio-economic and scientific-technological development at different levels of management in industries, complexes and spheres of activity of the national economy of Russia».

Keywords: *NBIC-convergence, NBIC-technologies, nanotechnology, biotechnology, information and communication technologies, agro-industrial complex*

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For citation

Dudin M.N., Shutkov A.A., Anishchenko A.N. The sixth major cycle in the development of the world economy: the era of NBIC-convergence in agroindustrial complex //Market economy problems. – 2019. – No. 3. – Pp. 74-82 (In Russian).

DOI: https://doi.org/10.33051/2500-2325-2019-3-74-82