УДК: 338.32
DOI: 10.35330/1991-6639-2019-3-89-37-47

TECHNOLOGICAL FACTOR AS A DRIVER OF ADVANCED DEVELOPMENT

G.Kh. BATOV[1], Sh.T. SHALOVA[2]

[1]Institute of Computer Science and Problems of Regional Management –
branch of Federal public budgetary scientific establishment "Federal scientific center
"Kabardin-Balkar Scientific Center of the Russian Academy of Sciences"
360000, KBR, Nalchik, 37-a, I. Armand St.
E-mail: iipru@rambler.ru
[2]FSBI HE "The Kabardino-Balkarian State University n,a. H.M. Berbekov"
360004, KBR, Nalchik, Chernyshevsky street, 173
E-mail: bsk@kbsu.ru

Purpose. *In modern conditions, the main factors of the organization of the progressive development of the economy, improving the quality of life of the population and ensuring the military security of the country, are the technology in its broadest sense. The lag in this component may threaten by the most unpredictable consequences, mainly of a negative nature. In order to avoid such a scenario, it is necessary to pay close attention to all aspects of technological development, especially the regional aspects.*

The purpose of the article is to identify the state of scientific and technological parameters of the macroregion, to identify the factors that impede the technological development of the district, to offer recommendations for solving problems associated with the introduction of new technologies in the production process.

Methodology*. The study is based on the methodology of the system approach, the use of methods of economic and statistical analysis, scientific abstraction, analogies and scientific generalizations. During the development of the proposed topics were used classical and modern works of domestic and foreign scientists, statistical and empirical material collected in the course of field research.*

Results. *In the process of intensive development of territories and the use of various funds, economic entities are increasingly faced with a lack of resources, which need to be renewed and replenished all the time. One of the possible solutions to the resource shortage and its full provision is the use of new technologies. In turn, obtaining new technologies is possible with the correct formulation of research activities, including the same process in the regions, the establishment of closer cooperation between scientific institutions, educational organizations and industrial enterprises. The solution to the problems could be the development of each subject of the district of its strategy for the introduction of innovative, digital and information and communication technologies in production and transaction processes.*

Summary. *The implementation of new approaches should lead to the formation of a new technological structure, while it is necessary to take into account that in terms of technological development and knowledge- capacity the regions are very different. Industry gaps in the technical level are so significant that it makes no sense to talk about a common technical policy for all spheres of management. It is necessary to develop a state policy designed to solve fundamentally different problems of technological development facing the sectors of the economy that belong to different technological levels and face different reproductive problems. All decisions should be made taking into account long-term trends of technological development of the region.*

Key words: technology, technological development, region, NCFD, system approach, innovation, technology transfer.

REFERENCES

1. Knyaginin V.N., Movily V.V., Fadeev V.Yu. *Perspektivy nauchno-tekhnologicheskogo razvitiya regionov Rossiyskoy Federatsii* [Prospects of scientific and technological development of regions of the Russian Federation] // *Al'manakh «Nauka. Innovatsii. Obrazovaniye»* [Almanac «Science. Innovations. Education»]. 2008. No. 5. P. 201-218.

2. *Sotsial'no-ekonomicheskiye faktory formirovaniya strategii i stsenariyev innovatsionnogo razvitiya rossiyskoy ekonomiki: Sbornik nauchnykh statey* [Socio-economic factors of formation

of strategy and scenarios of innovative development of the Russian economy. Collection of scientific articles] / edited by A. I. Kolganov. M.: RG-Press, 2014. 151 c.

3. Tapscott D. The Digital Economy. 1995 [Electronic resource] access Code: http:// dontapscott.com/ books/the-digital-economy/

4. Bukht R., Hicks R. *Opredeleniye, kontseptsiya i izmereniye tsifrovoy ekonomiki* [Definition, concept and measurement of the digital economy] // *Vestnik mezhdunarodnykh organizatsiy* [Bulletin of international organizations]. 2018. Vol. 13. No. 2. P. 143-172. DOI: 10.17323/1996-7845-2018-02-07.

5. Waigend A. *BIG DATA. Vsya tekhnologiya v odnoy knige* [All technology in one book]. M.: Eksmo, 2018. 384 c.

6. Kirton J., Warren B. *Povestka dnya «Gruppy dvadtsati» v oblasti tsifrovizatsii* [G20 Agenda in the field of digitalization]. *Vestnik mezhdunarodnykh organizatsiy* [Bulletin of international organizations]. 2018. Vol. 13. No. 2. P. 17-47 (in Russian and English). DOI: 10.17323/1996-7845-2018-02-02.

7. Zubarev A. E. *Tsifrovaya ekonomika kak forma proyavleniya zakonomernostey razvitiya novoy ekonomiki* [The Digital economy as a form of manifestation of regularities in the development of the new economy] // Vestnik TOGU. 2017. № 4(47). P. 177-184.

8. Krantz M. *Internet veshchey: novaya tekhnologicheskaya revolyutsiya: per. s angl* [Internet of things: a new technological revolution. Per. with English]. M: Eksmo, 2018. 336 p.

9. Mesenbourg T. L. Measuring the Digital Economy, US Bureau of the Census, Suitland, MD. Access mode: https://www.census.gov/content/dam/Census/library/ working - papers/2001/econ/umdigital.pdf (accessed 01.06.2018).

10. Perez K. *Tekhnologicheskiye revolyutsii i finansovyy kapital* [Technological revolutions and financial capital]. M: The Thing Is. 2011. 236 p.

11. Freeman C. The National System of Innovation in Historical Perspective [The National System of Innovation in Historical Perspective] // Cambridge Journal of Economics [Cambridge Journal of Economics]. 1995. No. 19.

12. Frolov I.E., Ganichev N.A. *Nauchno-tekhnologicheskiy potentsial Rossii na sovre-mennom etape: problemy realizatsii i perspektivy razvitiya* [Scientific and technological potential of Russia at the present stage: problems of implementation and prospects of development] // *Problemy prognozirovaniya* [Problems of forecasting]. 2014. № 1(142). P. 3-20.

13. Zeynalov R.A. *Vliyaniye razvitiya promyshlennoy bazy na promyshlennyy potentsial regiona* [The impact of the development of the industrial base in the industrial potential of the region] // *Sovremennyye problemy nauki i obrazovaniya* [Modern problems of science and education]. 2014. No. 5.

14. Komkov N.I. *Innovatsionnaya modernizatsiya i tekhnologicheskoye razvitiye: otkaz ili korrektirovka strategii?* [Innovative modernization and technological development: failure or adjustment of the strategy?] // *MIR (Modernizatsiya. Innovatsii. Razvitiye)* [MID (Modernization. Innovations. Development.)] 2013. No. 15.

15. Magomedgadzhiev S.M., Gadzhiyev N.K. *Analiz nauchno-tekhnicheskogo i innovatsi-onnogo razvitiya sub"yektov SKFO* [Analysis of scientific-technical and innovative development of subjects of North Caucasus Federal District] // *Otkrytoye obrazovaniye* [Open education]. 2011. No. 2. P. 301-305.

16. Komkov N.I. *Kompleksnoye prognozirovaniye nauchno-tekhnologicheskogo razvitiya: opyt i uroki* [Complex forecasting of scientific and technological development: experience and lessons] // *Problemy prognozirovaniya* [Problems of forecasting]. 2014. №2 (143). P. 3-17.

17. Sirotin D.V. *Razrabotka metodologicheskogo podkhoda k izmeneniyu tekhnologiche-skogo oblika bazovoy otrasli regiona* [Development of a methodological approach to changing the technological image of the basic industry of the region]. *Zhurnal ekonomicheskoy teorii* [Journal of economic theory]. 2016. No. 2. P. 173-177.

18. Rodrik D. *Otraslevaya politika dlya XXI veka* [Industrial branches policy for the twenty-first century] // Prognosis. 2007. No. 3. P. 211-261.

Batov Gumar Khasanovich, Doctor of economics, leading staff scientist, Institute of Computer Science and Problems of Regional Management - branch of Federal research center "Kabardin-Balkar Scientific Center of the Russian Academy of Sciences".

360004, KBR, Nalchik, I. Armand street, 37-a.

Ph. 8-928-719-69-32.

E-mail: gumarbatov@mail.ru

Shalova Shaida Timurovna, Master student of the Kabardino-Balkarian State University H.M. Berbekov.

360004, KBR, Nalchik, Chernyshevsky str., 174.

Ph. 8-928-719-05-02.

E-mail: shalova.12@mail.ru