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Study of ІЅЃ innovative environment of the digital economy

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Аннотация:

Emergence of digital economy indicates that good social and economic results are achieved due to synergistic effect of aggregate of information technologies and resources accumulated in the society, and their application by citizens and entrepreneurs for innovation activity. Modern technologies allow converting huge array of digital data into societally valuable knowledge. Which only happens, however, when these data are collected, stored and processed by businesses. Availability of digital advantages to economic subjects depends on the innovation environment and its conformity to the requirements of digital economy. The purpose of the study is to find how requirements for innovation environment are changed. Innovation environment is considered from three prospects: IT-infrastructure, information and knowledge resources, education. Development trends of the economy indicate its further globalization resulting in fast spread of innovations around the world. Thus, the study involved indicators that characterized the state of innovation environment in international cross-section. As official statistics estimates for innovation activity have not demonstrated any relationship between them, international patent data (inventions, utility models, industrial samples, trademarks) have been used as indicators of innovation activity results. Based on correlation analysis, those indicators have been selected that are most strongly related to innovation activity results. For IT infrastructure, the indicator of consumption of computer and communication technologies by countries has been considered. To characterize information and knowledge resources, international patent documents have been used. For estimation of impact of a higher education system, a number of top higher education institutions represented in the international ranking of 1000 universities have been considered. Obtained results show that innovation environment of digital economy is a distributed information network with multiple communication channels and digital data collection points. For its successful operations, sufficient computing capacity and high-speed data transmission channels need to be provided. As a result of development of global information society, a small group of countries have managed to create intellectual assets needed for its development (software, digital platforms), and these countries act as providers of the intellectual component of IT in the world arena. At the same time, the other countries have become consumers of these technologies. For the information and technology space being established to be used for creation of global innovations inside the country, development of intellectual assets and training of specialists need to be provided. Otherwise, opportunities of digitization of

economy inside the country will be used by foreign companies. It is the higher education system that ensures that application of IT infrastructure creates innovations and accumulates intellectual capacity. © 2018 Academic Conferences and Publishing International Limited. All rights reserved.

Ключевые слова:

Digital divide, Digital economy, Innovation environment