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Adaptive infrastructure and technological opportunities for the development of the digital enterprise economy

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Abstract. The development of digital enterprises takes place in constantly changing conditions, requiring the use of adequate infrastructure and technological capabilities to adapt to change, withstanding competition in domestic and foreign markets. The priority areas in the implementation of infrastructure and technological opportunities for the development of digital enterprises are updated strategic management technologies, non-standard mechanisms for increasing economic activity of the population, better digital financial instruments, as well as effective cybersecurity and economic adaptation systems required in the new economic conditions.

Key words: strategic management, digitalization of finance, economically active population, cybersecurity.

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Адаптивная инфраструктура и технологические возможности для развития экономики цифрового предприятия

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Аннотация. Развитие цифровых предприятий происходит в постоянно меняющихся условиях, требующих использования соответствующей инфраструктуры и технологических возможностей для адаптации к изменениям, выдерживая конкуренцию на внутреннем и внешнем рынках. Приоритетными направлениями в реализации инфраструктуры и технологических возможностей для развития цифровых предприятий являются обновленные технологии стратегического управления, нестандартные механизмы повышения экономической активности населения, более совершенные цифровые финансовые инструменты, а также необходимые эффективные системы кибербезопасности и экономической адаптации в новых экономических условиях..

Ключевые слова: стратегическое управление, цифровизация финансов, экономически активное население, кибербезопасность

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Introduction

Economic and managerial changes in the national phenomena. management system cannot do without modern technologies, tools and mechanisms for their use in real and virtual reality. Together with information, areas in the implementation of infrastructure and structured knowledge, a system of skills and skills, technological opportunities for the development they are modern drivers for the development of of digital enterprises, such as updating strategic digital enterprises. Unfortunately, not all digital management technologies, using non-standard enterprises are achieving high success and the mechanisms to increase economic activity of reasons for this are very specific and different. Some the population, using advanced digital financial enterprises do not have a proper development instruments, as well as effective cyberse curity systems strategy, others have problems with digitalization and adapting the economy required in the new of finance, third have a system of cybersecurity economic conditions. New possibilities of finance and adaptability of technology to current changes. are shown when using them on the Internet, through All together experience inconvenience due to successfully integrated information and computer insufficient economic activity of the population. technologies, in the field of communications. Given the importance of the development of digital Attractive funding opportunities for projects such as enterprises and large companies based on them, crowdfunding, crowdsourcing and fundraising have solving these problems is an urgent task of important become available. The basic technologies of digital national economic importance.

Materials and methods

problem, which made it possible to summarize the the generation, processing, storage, and transfer accumulated experience and identify the features of of data. An increase in the indicator of economic the modern state of use of adaptive infrastructure and activity of the population of Rossi was revealed, technological opportunities for the development necessitating an adequate increase in digital literacy of the economy of digital enterprises. Statistical and digital culture of citizens. An effective tool for processing of information from available sources staff adaptation, such as a corporate social network, was used. The scientific basis of the study was is proposed for wide implementation, which allows compiled by various methods of cognition, which employees to significantly reduce the time to adapt

in close relationship with each other and with other

Results

The study showed the presence of such priority enterprises in the field of finance are highlighted: blockchain, cryptocurrencies, big data, distributed The article used scientific publications on this databases, new platform companies associated with allow comparing the objects of study in time, space, to new living conditions for digital companies. It is recommended to develop a security rule for digital enterprises operating remotely and show the need to train personnel to comply with them, taking into

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protecting information in various situations.

Discussion

of the digital enterprises is a necessary condition of implementation of new technologies consist in and successful functioning of economy. It is necessary that can be received for effect as a result of expected to understand the organization using different changes. At the same time many companies develop information technologies allowing to create a strategy of the enterprises not always proceeding competitive advantage in the market of commodity from business challenges for the sake of which and services in the activity as the digital enterprise, solution it is developed [Baranovsky 2018]. within the created strategy and providing more than 75% arrived due to digitalization. Strategy is out digital transformation. Their management does understood as the combination of methods of the not realize real need of digitalization and quite competition and business organization directed often works without the necessary strategy. All this to satisfaction of individual customer needs and demands understanding of an essence and features achievement of the goals of the company with the of strategic management by development of the most rational way.

The management of the digital enterprise has to goals and objectives facing its collective. develop such strategy of management which will conform more to requirements of modern business. management of the digital enterprise needs to A variety of strategy and their combination allow to carry out work with employees and to manage to transform actions in compliance with changes of explain importance of the carried-out changes for internal or external factors which influence activity the future of the company. The implementation of the company [Grimashevich 2018].

management in the form of the corresponding to update business processes. Other actions of the stages includes forming of strategic vision of the management will also be required. Now special future of the company; statement of the planned attention is not accidentally paid, for example, to development purposes; development of strategy at management of finance, demand for which remains various levels, a pyramid of development of strategy; at the high level, as a result of the mass digitalization strategy implementation; assessment of results and of economic entities demanding development of correction of strategic vision. It should be noted adequate financial instruments and relations. that strategic management by the digital enterprise represents cascade model [Kosheleva 2019]. At the competitiveness of the digital enterprises in many same time, at each stage the transition as on the respects depends. It should be noted that the modern following level of management can be performed, terms of business are dictated need of transition and return to the previous level, for example, for of the enterprises to use of digital technologies specification of any information is made. Besides, for the financial sphere. This phenomenon from digital technologies constantly

while others disappear that demands correction organization and control, creation of digital financial of the current strategy of enterprise management products. Digital products promote increase in and adoption of the relevant decisions. During efficiency and competitiveness of management of development of strategy of management of the finance, make them available in real time, allow the digital enterprise it is necessary to give paramount enterprises to feel steadily in the market. attention to questions of relevance of the applied technologies of digitalization.

strategy of management, it is necessary to find out to possess the priority place in modern society,

account the accumulated corporate practice of it will be directed new technologies to; what tools will be required for their introduction; that for changes it will be required to bring in the current Effective strategic management by development activity of the enterprise; what possible risks from

> Now most the enterprises are not ready to carry digital enterprises, ability to formulate the accurate

Before being engaged in strategy, the of the strategy will depend on how much it can The most rational sequence of actions of strategic create the conditions required to adapt employees

From that, finance is how effective, the the category of desirable, turns into the status of are improved, appear new players in the market obligatory digitalization of financial processes, their

Now understanding that the digital economy is not only development and introduction of However, before making changes to the current innovations and innovations which by right have the following questions: what sphere of production but also purposeful work of financial institutions is

actively formed. Essentially new opportunities of digital enterprises in the sphere of finance can be finance reveal at their use on the Internet, through considered: a blockchain, cryptocurrencies, big successfully integrated information and computer data, the distributed databases, the new enterprise technologies, in the sphere of communications platforms which are connected with generation, ¹. Modern sites on the Internet allow to improve processing, storage and data transmission. By conditions not only for business, but also for search means of digital solutions it is possible to automate of necessary financial resources, investments. On accounting, to improve analytics and to build the basis of rapid development of information uniform financial processes in the companies and and communication technologies, new attractive branches. funding opportunities, for example due to use of crowd funding, crowdsourcing and fundraising to creation of the most favorable conditions for became available to the modern enterprises [Ukolov permanent monitoring of existence of financial 2017].

financial management. They penetrate financial economic interests of the enterprise and search of strategy, strengthening its technological capabilities competitive advantages [Stepanets 2018]. regarding work with big data, with information in real time, with investment projects, business spheres of economic activity, the discrepancy of by processes, logistics, and other components in traditional, most widespread models of finance which finance participates, causes emergence of of the enterprise, with new models is traced. It is new digital products. Basic technologies of the caused by existence of contradictions between the

Introduction of new digital products is directed resources and also option of their most effective Digital technologies increase effectiveness of placement and use for the purpose of satisfaction of

> In the conditions of digital transformations of existing management systems and construction new, with other digital financial infrastructure accelerating capital flow. However, despite existing disagreements, in modern conditions the financial strategy of the enterprise has to be directed to achievement of the following key purposes (fig. 1).

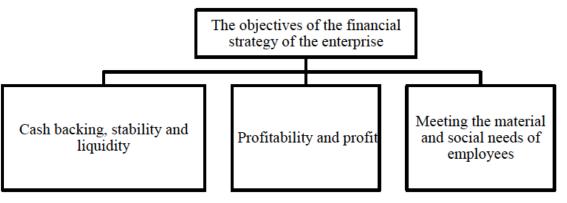


Figure 1. Key objectives of the company's financial strategy

of digital technologies in strategic management most unexpected situations [Shirinkina 2019]. by finance leads to the increased risks connected effective work can lead to financial losses of the and work in virtual space. They can be neutralized in company and even to its bankruptcy. Use of digital certain limits over time. strategic solutions in the sphere of finance not

At the same time, in new conditions management emergence as a result of failures in work of a financial of finance of the enterprise has the difficulties. We system from which it is not always possible to be will analyze some of them [Trofimova 2020]. So, use protected. And failures can be at any time and in the

Management of finance of the enterprise is with information and demands development of subject existence of a considerable part of other an information security system. Its insufficiently risks which are inherent in all system of digitalization

The majority of transformations of economic always does without technological mistakes. From entities are connected with the digitalization

¹ Tsifrovaya ekonomika Rossiyskoy Federatsii [Digital Economy of the Russian Federation] : National Program: Order of the Government of the Russian Federation No. 1632-r dated July 28, 2017. Government of Russia : [website]. URL: http://government.ru/docs/28653/. Date of publication 07/31/2017 (in Rus.).

demanding a certain level of activity of the working place successfully. population. We will use the analysis of its state for 2017–2019 to understand the developing trends network which large companies [Belonogova 2017] of change and to use them when planning and are able to afford to create. By means of it the staff forecasting the forthcoming changes. So, if in 2017 of the company can communicate in chats as with the number of the working population in Russia each other, and with the management. In particular, made 95.8% (72,316 thousand people from all labor), it can look approximately so: the news feed places then in 2018, it increased a little (by only 0.3%, or information on the happening and planned changes to 72,532 thousand people)². However, in 2019 the in the company, and an opportunity to unite in number of the working population was already interest groups allow to share experience, to start reduced by 0.8% (or by 599 thousand people) new communications and to build up the required and the number of busy decreased up to 71,933 relationship; the social network can provide access thousand people. If we continue the analysis and we to the materials and documents which are required investigate this indicator in 2020, then we will see the solution for development to online a format. that the active population in Russia in November of this year increased and reached up to 75.3 million guickly specialists necessary to them, understand persons³.

population of Rossi tends growth, allows to count system of search of colleagues, an opportunity to on participation of citizens in the happening create virtual the plan scheme, all departments transformations. It will also demand creation of can be added to social network. One more useful necessary conditions for achievement of appropriate function – the calendar in which all significant levels of digital literacy, a digital maturity and events are included: meetings, presentations, acquisition of the required skills. Personnel of the planning meetings, corporate events and many modern enterprises, also has to correspond to the other things. competences necessary for professional activity in the conditions of digital economy. They also need of social network under needs of clients of the mastering of new technologies and instruments of company and also addition function of geolocation digital management. managements. All this will allow which can be very attractive can become a pleasant to create future economy on balance of the human bonus. resources supported with digital technologies and instruments of management of new generation.

transformations is the adaptability of the working updating of cyberthreats at the enterprises in general population and personnel of the companies, to the and ordinary workers demands adequate skills of happening changes. It is clear, that everyone has to be counteraction and adaptation to the happening able to adapt, without loss of value reference points. changes, without any losses. Due to the distribution But there is a question, what perspective decisions of a remote operating mode, the employees using for problems of adaptation, especially, how to create the personal space for Internet-communication have the convenient instrument of communication to observe safety requirements at the enterprise between the worker and the company management level that demands expenditure of means in this that adaptation, including its social aspect, took direction, including creations of the mode of safety

Practice shows that such tool is the corporate social

In order that adaptive workers could find the organizational structure of the company and Thus, the indicator of economic activity of the accelerate process of the adaptation, the simple

The thorough and well thought over orientation

At development of technologies of digitalization of economic entities, questions of information Other important question of success of digital security support are put⁴ in the forefront. Permanent of corporate information.

Weak spot in a home information network active and able-bodied population]. Rosinfostat : [website]. URL: https:// are routers, using which, it is possible to capture rosinfostat.ru/ekonomicheski-aktivnoe-naselenie/ (accessed 12/23/2020) (in working devices and to pass from one device to another, trying to be fixed in corporate network for

² Ekonomicheski aktivnoye i trudosposobnoye naseleniye [Economically Rus.).

³ Dinamika chislennosti ekonomicheski aktivnogo naseleniya [Dynamics of the economically active population]. Goskomstat RF: [website]. URL: 4 Kiberbezopasnost' vstupayet v poru zrelosti [Cybersecurity is entering (accessed 12/23/2020)(in Rus.).

http://www.gks.ru/bgd/free/b00_24/lssWWW.exe/Stg/d000/i000040r.htm_its_maturity]. PwC : [website]. URL: https://www.pwc.ru/ru/publications/ digital-trust-insights-2021.html (accessed 01/12/2021) (in Rus.).

its use in the purposes. Measures of protection are information will allow to build the proper system inseparable from the enterprises here. The latest of protection against threats which manifestation trends in enterprise protection are IT infrastructure probability in the foreseeable future is rather high. upgrades and faster cloud migrations, making it The notification of users about tactics and possible difficult for hackers to locate and process data.

immersion in a cloud environment and use of have to develop safety rules during the work for the new tools for joint operation, do security by even remote mode, train personnel in their observance more difficult task. For ensuring transparency of a and extend the advanced corporate practicians of system and requirements satisfaction in scaling, the information protection in various situations. Such organization collect and store huge volumes of data rules have to reflect security policy of the company from various sources and Wednesdays which guite and a response to the arising incidents. At the same often become available to unauthorized faces.

spots in the application programming interfaces of the used applications and definition of priority helping to develop services and the software measures of protection is important. on the corresponding devices and also giving opportunities for customer interaction through various applications will be subject to the attacks using adaptive infrastructure and technological of malefactors. Malefactors can use program opportunities for the development of the economy intermediaries as entry points in the organization of digital enterprises make it necessary to use various and as interfaces become more and more essential system-forming approaches. These include the in corporate virtual space, the probability of their implementation of updated strategic management attack becomes more real. It demands acceptance technologies, of the preventive and infrastructure measures of increasing economic activity of the population, protection protecting from this type of threats. At more advanced digital financial instruments, the same time, for safe remote work of employees at as well as effective cybersecurity systems and home constantly awaking to be required protection economic adaptation required in the new economic of IT infrastructure of the companies. It will concern conditions. They allow digital enterprises to develop all removed labor over time.

of a system of information protection have to use environment. the most qualitatively made forecasts and consider them when developing strategy of cyber security.

vectors of the attack of malefactors can serve as Remote work also represents a problem as other measure of protection. Besides, the companies time the round-the-clock detection of threats, There is a probability and the fact that weak carrying out the complex analysis, regular updating

Summary

The peculiarities of the modern state of non-standard mechanisms and qualitatively solve the problems of satisfying the The persons making decisions on improvement needs of consumers in a real and virtual operating

Conflicting interest

The authors confirm that the submissions do not Implementation of strategy constructed on reliable contain a conflict of interest.

References

- Baranovsky 2018 Baranovsky V. Yu. Formirovaniye strategicheskoy karty upravleniya predpriyatiyem na 1. osnove kontseptsii tsifrovoy transformatsii biznesa [Formation of the strategic map of business management on the basis of the concept of digital transformation of business]. V. Yu. Baranovsky, I. M. Zaichenko. Nauchno-tekhnicheskiye vedomosti Sankt-Peterburgskogo gosudarstvennogo politekhnicheskogo universiteta. *Ekonomicheskiye nauki = St. Petersburg State Polytechnical University Journal. Economics.* 2018; 11 (3): 185-193. DOI: 10.18721/JE.11316 (in Rus.).
- 2. Belonogova 2017 – Belonogova N. N. Adaptatsiya personala: na zametku HR-menedzheram [Personnel adaptation: a note to HR managers]. KP: [website]. URL: https://www.kp.ru/guide/adaptatsija-personala.html. Publication date 12/29/2017 (in Rus.).
- 3. Grimashevich 2018 Grimashevich O. N. Strategicheskoye upravleniye kompaniyami v usloviyakh tsifrovoy ekonomiki [Strategic management of companies in the digital economy]. O. N. Grimashevich. Vestnik Saratovskogo gosudarstvennogo sotsial'no-ekonomicheskogo universiteta [Bulletin of the Saratov State Social and Economic University]. 2018; 5 (74); 9-11. ISSN: 1994-5094 (in Rus.).
- 4. Kosheleva 2019 – Kosheleva T. N. Osobennosti strategicheskogo upravleniya malykh i srednikh servisnykh

kompaniy v usloviyakh stanovleniya tsifrovoy ekonomiki [Peculiarities of strategic management of small and medium-sized service companies in the conditions of the formation of the digital economy]. T. N. Kosheleva, T. A. Sorvina. *Peterburgskiy ekonomicheskiy zhurnal* = *Saint-Petersburg Economic Journal*. 2019; 4: 61–67. DOI: 10.25631/PEJ.2019.4.61.67 (in Rus.).

- Stepanets 2018 Stepanets L. Yu. Analiz razvitiya i effektivnost' vnedreniya tsifrovizatsii v neftegazovuyu otrasl' [Development analysis and efficiency of digitalization implementation in the oil and gas industry].
 L. Yu. Stepanets, E. A. Akopyan. *Innovatsionnaya nauka = Innovation science*. 2018; 7-8: 69-72. ISSN: 2410-6070 (in Rus.).
- 6. Trofimova 2020 Trofimova N. N. Problemy strategicheskogo upravleniya biznes-protsessami v usloviyakh kompleksnoy tsifrovizatsii naukoyemkikh proizvodstv [Problems of strategic management of business processes in the context of complex digitalization of science-intensive industries]. N. N. Trofimova. *Vestnik universiteta*. 2020; 8: 33–40. DOI: 10.26425/1816-4277-2020-8-33-40 (in Rus.).
- Ukolov 2017 Ukolov V. F. Proryvnyye innovatsionnyye kriptotekhnologii sovremennykh ekonomicheskikh sistem [Breakthrough innovative cryptotechnologies of modern economic systems]. V. F. Ukolov, A. N. Sazanovich. *Vestnik MIRBIS*. 2017; 4 (12): 105-110. eISSN: 2411-5703 (in Rus.).
- Shirinkina 2019 Shirinkina E. V. Transformatsiya printsipov upravleniya chelovecheskim kapitalom v usloviyakh razvitiya tsifrovoy ekonomiki [Transformation of the principles of human capital management in the context of the development of the digital economy]. E. V. Shirinkina. *Vestnik Udmurtskogo universiteta*. *Seriya Ekonomika i pravo = Bulletin of Udmurt University. Series Economics and Law.* 2019; 29 (1): 55–61. ISSN: 2412-9593 (in Rus.).

Список источников

- Барановский В. Ю. Формирование стратегической карты управления предприятием на основе концепции цифровой трансформации бизнеса / В. Ю. Барановский, И. М. Зайченко // Научно-технические ведомости Санкт-Петербургского государственного политехнического университета. Экономические науки = St. Petersburg State Polytechnical University Journal. Economics. 2018; 11(3): 185–193. DOI: 10.18721/ JE.11316.
- 2. *Белоногова Н. Н.* Адаптация персонала: на заметку НR-менеджерам. КП : [сайт]. URL: <u>https://www.kp.ru/</u> <u>guide/adaptatsija-personala.html</u>. Дата публикации 29.12.2017.
- Гримашевич О. Н. Стратегическое управление компаниями в условиях цифровой экономики / О. Н. Гримашевич // Вестник Саратовского государственного социально-экономического университета. 2018; 5(74); 9–11. ISSN: 1994-5094.
- Кошелева Т. Н. Особенности стратегического управления малых и средних сервисных компаний в условиях становления цифровой экономики / Т. Н. Кошелева, Т. А. Сорвина // Петербургский экономический журнал = Saint-Petersburg Economic Journal. 2019; 4: 61–67. DOI: 10.25631/PEJ.2019.4.61.67.
- Степанец Л. Ю. Анализ развития и эффективность внедрения цифровизации в нефтегазовую отрасль / Л. Ю. Степанец, Э. А. Акопян // Инновационная наука = Innovation science. 2018; 7-8: 69–72. ISSN: 2410-6070.
- *6. Трофимова Н. Н.* Проблемы стратегического управления бизнес-процессами в условиях комплексной цифровизации наукоемких производств / Н. Н. Трофимова // Вестник университета. 2020; 8: 33–40. DOI: 10.26425/1816-4277-2020-8-33-40.
- 7. Уколов В. Ф. Прорывные инновационные криптотехнологии современных экономических систем / В. Ф. Уколов, А. Н. Сазанович // Вестник МИРБИС. 2017; 4(12): 105–110. eISSN: 2411-5703.
- 8. Ширинкина Е. В. Трансформация принципов управления человеческим капиталом в условиях развития цифровой экономики / Е. В. Ширинкина // Вестник Удмуртского университета. Серия Экономика и право = Bulletin of Udmurt University. Series Economics and Law. 2019; 29(1): 55–61. ISSN: 2412-9593.

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