

**Fokina Natalya Alexandrovna,**  
Ph.D. in Economics, associate professor,  
Department of Management,  
Institute of Economics and Management,  
V.I. Vernadsky Crimean Federal University,  
Simferopol, Russian Federation.

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## FORMATION OF A CONCEPTUAL DIGITAL MODEL OF THE REGION

The modern development of society is characterized by evolutionary digital transformation, in particular, attempts are being made to move from smart cities to digital regions through the formation and scaling of digital practices. However, such a transition requires additional institutional, technical and organizational innovations, as well as the development of professional digital competencies. At the state level, programs are being developed to help increase the level of «digital maturity», actively promoted and conditions are created for interregional cooperation, exchange of experience and digital practices. In the field of regional management, approaches are being actively developed and individual projects are being implemented to form a digital model of the region. Such a model is necessary for monitoring and adjusting the development of regional economic entities, as well as improving the quality of public services.

Within the framework of the proposed work, various approaches and tools for the formation of a digital model of the region are analyzed. The features of the digital transformation of the Russian Federation are considered, attention is focused on the difference in the levels of digital maturity of the regions and the lack of highly qualified IT specialists. The need for the exchange of experience and digital products between regions is emphasized in order to overcome the «digital regional inequality». It is noted that almost all regions are implementing separate digital transformation projects. The task of the current stage of the transition to the «digital region» is to create and identify the best digital practices with a view to their subsequent consolidation into a single digital model of the region.

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A conceptual digital model of the region is proposed, which includes two blocks of modules — regional and specific.  
*Keywords:* digital model of the region, digitalization, digital transformation, regional development management, region.

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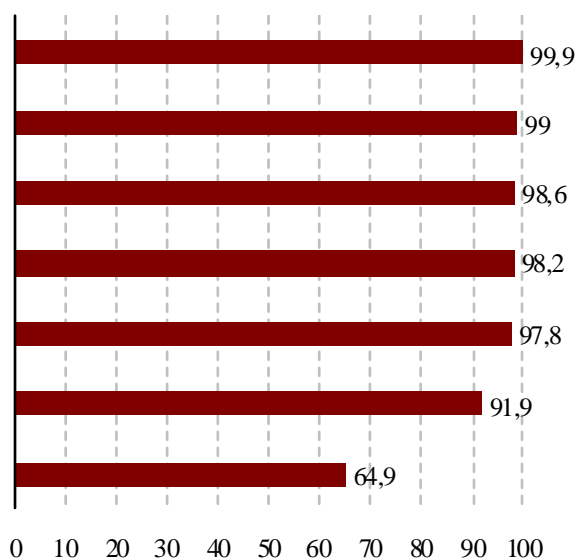
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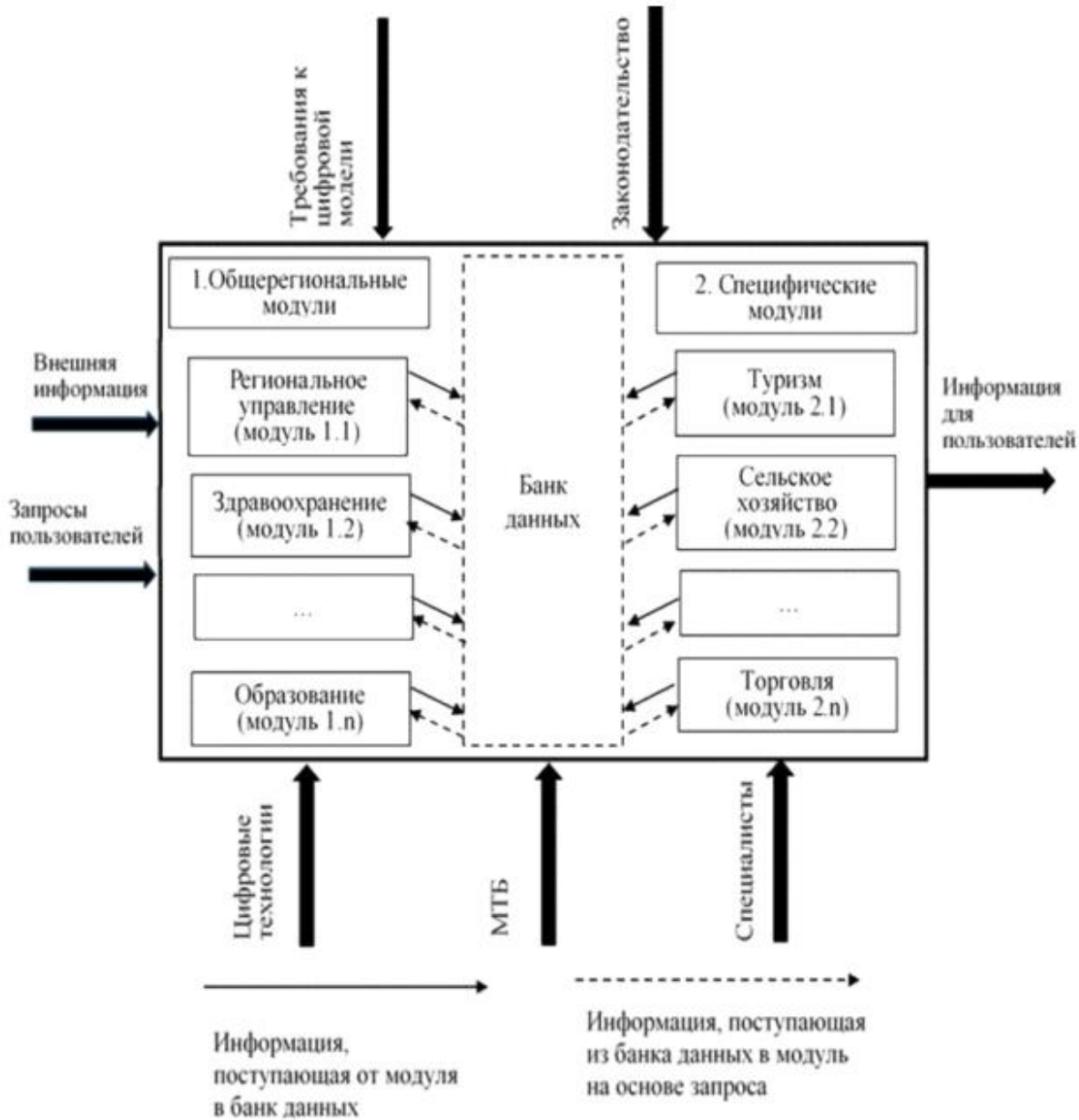
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1 2021 2148. 1. « ( ) 95 % 2030 . 2. 85 2030 . 3. « » (100 %) 2030 . 4. 95 % 2030 »[6].



«ИТ-персонал» — журнал, посвященный вопросам информатизации государственного управления. В журнале рассматриваются вопросы организации и деятельности ИТ-персонала в государственных органах, а также вопросы повышения квалификации и профессионального развития ИТ-специалистов.

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1. . . . / . . . // : , , . — 2021. — 1 (54). — . 198–213.
2. . . . / . . . // . . . : . . . — 2020. — 9. 4. — . 5–23.
3. : 2021 : / . . . , . . . 380 .
4. « . . . » — . : 2021. — 380 . 2021 [ . . . ]/ . . . , 2022. — 142 . — : minfin.gov.ru/common/upload/library/2022/08/main/Kniga\_itogovaya\_09.06.2022.pdf ( : 04.10–07.10.2022).
5. - : - 2024 . [ . . . ]/ - . . . , 2020. — : apkit.ru/files/it-personnel%20research\_2024\_APKIT.pdf ( : 04.10–07.10.2022).
6. [ . . . ]/ . . . : programs.gov.ru/Portal/programs/passport/54 ( : 04.10–07.10.2022).
7. , [ . . . ]/ . . . : our2019.mts.ru ( : 04.10–07.10.2022).
8. « . . . » — [ . . . ]/ . . . : itforum.admhmao.ru/upload/iblock/310/rusgis-khmao-forum-2017.pdf ( : 04.10–07.10.2022).
9. [ . . . ]/TDadviser: . . . : www.tadviser.ru/index.php/ : . . . ( : 04.10–07.10.2022).
10. [ . . . ]/ . . . : proekty.er.ru/projects/cifrovaya-rossiya ( : 04.10–07.10.2022).

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11. : [ ]. — : 04.10–07.10.2022).

#### SPISOK LITERATURY

1. Borshch L.M. Osobennosti klasternogo podkhoda v rekreatsionnoy sfere regiona v kontekste tsifrovogo razvitiya na primere Respubliki Krym / L.M. Borshch, S.I. Pol'skaya // Nauchnyy vestnik: finansy, banki, investitsii. — 2021. — 1 (54). — S. 198–213.

2. Ivanov S.A. Kontsepsiya postroyeniya tsifrovogo dvoynika goroda / S.A. Ivanov, K.Yu. Nikol'skaya, G.I. Radchenko, L.B. Sokolinskiy, M.L. Tsymler // Vestnik YUUrGU. Seriya: Vychislitel'naya matematika i informatika. — 2020. — T. 9. — 4. — S. 5–23.

3. Indikatory tsifrovoy ekonomiki: 2021 : statisticheskiy sbornik / G.I. Abdrakhmanova, K.O. Vishnevskiy, L.M. Gokhberg i dr.; Nats. issled. un-t «Vysshaya shkola ekonomiki». — M.: NIU VSHE, 2021. — 380 s.

4. Ispolneniye federal'nogo byudzheta i byudzhetov byudzhetnoy sistemy Rossiyskoy Federatsii za 2021 god [Elektronnyy resurs] / Ministerstvo finansov Rossiyskoy Federatsii. — Moskva, 2022. — 142 s. — Rezhim dostupa: minfin.gov.ru/common/upload/library/2022/08/main/Kniga\_itogovaya\_09.06.2022.pdf (data obrashcheniya: 04.10–07.10.2022).

5. IT-kadry dlya tsifrovoy ekonomiki v Rossii: Otsenka chislenosti IT-spetsialistov v Rossii i prognoz potrebnosti v nikh do 2024 g. [Elektronnyy resurs] / Assotsiatsiya predpriyatiy komp'yuternykh i informatsionnykh tekhnologiy. — Moskva, 2020. — Rezhim dostupa: apkit.ru/files/it-personnel %20research\_2024\_APKIT.pdf (data obrashcheniya: 04.10–07.10.2022).

6. Natsional'naya sistema prostranstvennykh dannykh [Elektronnyy resurs] / Portal Gosprogramm RF. — Rezhim dostupa: programs.gov.ru/Portal/programs/passport/54 (data obrashcheniya: 04.10–07.10.2022).

7. Produkty, sposobstvuyushchiye razvitiya regionov [Elektronnyy resurs] / Ofitsial'nyy sayt kompanii MTS. — Rezhim dostupa: our2019.mts.ru (data obrashcheniya: 04.10–07.10.2022).

8. «RusGIS» — Natsional'naya geoinformatsionnaya platforma dlya sozdaniya tsifrovoy modeli regiona [Elektronnyy resurs]. — Rezhim dostupa: itforum.admhmao.ru/upload/iblock/310/rusgis-khmao-forum-2017.pdf (data obrashcheniya: 04.10–07.10.2022).

9. Strategii tsifrovoy transformatsii regionov Rossii [Elektronnyy resurs] / TDadviser: Gosudarstvo. Biznes. Tekhnologii. — Rezhim dostupa: www.tadviser.ru/index.php/Stat'ya:Strategii\_tsifrovoy\_transformatsii\_regionov\_Rossii (data obrashcheniya: 04.10–07.10.2022).

10. Tsifrovaya Rossiya [Elektronnyy resurs] / Projekty partii Yedinaya Rossiya. — Rezhim dostupa: proekty.er.ru/projects/cifrovaya-rossiya (data obrashcheniya: 04.10–07.10.2022).

11. Tsifrovaya transformatsiya regiona: osnovnyye etapy i zadachi [Elektronnyy resurs]. — Rezhim dostupa: www.fsight.ru/blog/cifrovaja-transformaciya-regiona-osnovnye-jetapy-i-zadachi/ (data obrashcheniya: 04.10–07.10.2022).

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