

THE MECHANISM OF FORMATION OF TECHNOLOGY PARTNERSHIPS IN INDUSTRY

The article is devoted to the development of organizational and analytical tools for the mechanism of step-by-step formation of technological partnership in industry. The result of the research is a developed procedure for forming a technology partnership mechanism, which consists of five stages that allow determining the name and result of each of them. The proposed mechanism assumes at each stage the collection and analysis of information about the parameters of technological partnership of industrial enterprises, and also allows you to justify the list of consecutive directions of development of technological partnership, which determines the theoretical significance of the results obtained. For this purpose, they use methods of concept construction, logic, abstraction, description, and calculation method. The evaluation results determined within the relevant stages of the technological partnership mechanism serve as the basis for implementing regulatory measures by the subjects of the technological partnership to improve the regulatory and organizational and managerial conditions for the participation of industrial enterprises in the process of integrating technological decisions made within the framework of the technological partnership.

Keywords: technological partnership, mechanism, development, industrial enterprises, digital economy, organizational tools.

References

1. Kuznetsov S. V., Gorin E. A. Tsifrovizatsiya ekonomiki i transformatsiya promyshlennoy politiki [The digitalization of the economy and transformation of industrial policy] // *Innovatsii. Innovations*. 2017. No. 12 (230). P. 34–39. (In Russ.).
2. Akberdina V. V. Transformatsiya promyshlennogo kompleksa Rossii v usloviyakh tsifrovizatsii ekonomiki [The transformation of the Russian industrial complex under digitalisation] // *Izvestiya Ural'skogo gosudarstvennogo ekonomicheskogo universiteta. Journal of New Economy*. 2018. Vol. 19, no. 3. P. 82–99. DOI: 10.29141/2073-1019-2018-19-3-8. (In Russ.).
3. Mezentsev E. M., Antropov V. A., Gusev A. A. Upravleniye razvitiyem setevykh predprinimatel'skikh struktur [Management of the development of network business structures] / Resp. Ed. A. G. Shelomentsev. Ekaterinburg, 2018. 159 p. ISBN 978-5-94646-604-2. (In Russ.).
4. Koryakov A. G. Transformatsiya sistem upravleniya tekhnologicheskimi protsessami na predpriyatiyakh rossiyskogo Khimproma v usloviyakh perekhoda k tsifrovoy ekonomike [Transformation of systems of control of technological processes at the enterprises of Russian Chemical industry in the transition to a digital economy] // *Vestnik fakul'teta upravleniya SPbGEU. Vestnik Fakul'teta Upravleniya SPbGEU*. 2018. No. 3 (1). P. 298–302. (In Russ.).
5. Wu W. Y., Nguyen P. T. The antecedents of dynamic service Innovation Capabilities: the moderating roles of market dynamism and market orientation // *International Journal of Innovation Management*. 2019. Vol. 23, Issue 7. DOI: 10.1142/S136391961950066X. (In Engl.).
6. Karlik A. E., Platonov V. V., Tikhonova M. V. [et al.]. Mezhfirmennaya kooperatsiya kak faktor promyshlennogo razvitiya v informatsionno-setevoy ekonomike [Inter-firm cooperation as a factor of industrial development in the network information economy] // *Izvestiya Sankt-Peterburgskogo gosudarstvennogo ekonomicheskogo universiteta. Izvestia Sankt-Peterburgskogo Gosudarstvennogo Èkonomicheskogo Universiteta*. 2020. No. 6 (126). P. 7–14. (In Russ.).
7. Andrukhova O. V., Razmanova S. V. Rol' integratsionnykh struktur v razvitii otechestvennogo nefteservisa [The role of integration structures in development of domestic oilfield services] // *Problemy ustoychivogo razvitiya v otraslevom i regional'nom aspekte. Problemy Ustoychivogo Razvitiya v Otrasevom i Regional'nom Aspekte*. In 2 vols. / Resp. Ed. E. A. Koryakina. Tyumen, 2020. Vol. 2. P. 173–176. ISBN 978-5-9961-2474-9. (In Russ.).
8. Miller A. E., Davidenko L. M. Tekhnologicheskoye partnerstvo v tselyakh obespecheniya ekonomicheskoy bezopasnosti [Technological partnership for ensuring of economic security] // *Ekonomicheskaya bezopasnost': gosudarstvo, region, predpriyatiye. Ekonomicheskaya Bezopasnost': Gosudarstvo, Region, Predpriyatiye* / Eds.: E. V. Baranova, E. I. Kazitova. Barnaul, 2019. Vol. 1. P. 114–117. ISBN 978-5-7568-1332-6. (In Russ.).
9. Davidenko L. M. Tsifrovaya transformatsiya ekonomiki promyshlennogo kompleksa [Digital transformation of industrial complex economy] // *Grand Altai Research & Education / Nauka i obrazovanie Bol'shogo Altaa. Grand Altai Research & Education / Nauka i obrazovanie Bol'shogo Altaa*. 2018. Issue 2 (9). P. 13–19. DOI: 10.25712/ASTU.2410-485X.2018.02.02. (In Russ.).
10. Miller A. E., Rudenko N. S. Razvitiye promyshlennykh kholdingov v regione [Development of industrial holdings in the region] // *Upravleniye innovatsionnymi i investitsionnymi protsessami formirovaniya i razvitiya promyshlennykh predpriyatiy v usloviyakh tsifrovoy ekonomiki. Management of Innovative and Investment Processes of Formation and Development of Industrial*

Enterprises in the Digital Economy. St. Peterburg, 2018. P. 151–157. (In Russ.).

11. Maggi B. ICT stochastic externalities, technology innovation and business services: is there an evidence of missed opportunity growth? // *Economics of Innovation and New Technology*. 2019. Vol. 28, Issue 3. P. 265–278. DOI: 10.1080/10438599.2018.1483485. (In Engl.).

12. Smorodinskaya N. V. Globalizirovannaya ekonomika: ot iyerarkhiy k setevomu ukladu [The globalized economy: from hierarchies to a network order]. Moscow, 2015. 344 p. ISBN 978-5-9940-0536-1. (In Russ.).

13. Tikhomirova O. G. Korporativnaya kollaboratsiya i vzaimodeystviye: resheniye problemy samoorganizatsii sotsial'no-ekonomicheskikh system [Corporate collaboration and interaction: how we can solve the problem of self-organization in social-economic systems] // *Fundamental'nyye issledovaniya. Fundamental Research*. 2014. No. 9-5. P. 1082–1086. (In Russ.).

14. Korol'kova N. A., Vasyutina E. S. Kollaboratsiya kak istochnik transformatsii biznes-modeley [Collaboration as a source of business model transformation] // *ЭКО. ECO*. 2018. No. 4. P. 176–189. (In Russ.).

15. Thomson A. M., Perry J. L. Collaboration Processes: Inside the Black Box // *Public Administration Review*. 2006. Vol. 66, no. s1. P. 20–32. DOI: 10.1111/j.1540-6210.2006.00663.x. (In Russ.).

16. Kuimov V. V., Smolentseva L. T., Shcherbenko E. V. Ekonomika kooperatsionno-setevykh vzaimodeystviy i resursy eye razvitiya [The economy of cooperative-network interactions and resources for its development] // *Strategiya predpriyatiya v kontekste povysheniya ego konkurentosposobnosti. Strategiya*

Predpriyatiya v Kontekste Povysheniya ego Konkurentosposobnosti. 2019. No. 8. P. 259–265. (In Russ.).

17. Prezentatsiya promyshlennykh 3D-ELAP printerov rukovodstvu Roskosmosa [Presentation of industrial 3D-ELAP printers to management of Roscosmos] // *Ofitsial'nyy sayt Instituta fiziki prochnosti i materialovedeniya SO RAN* [Official site of Institute of Strength Physics and Materials Science of Siberian Branch of Russian Academy of Sciences]. URL: <http://www.ispms.ru/ru/news/492/> (accessed: 22.09.2020). (In Russ.).

18. Godovoy otchet Gosudarstvennoy korporatsii «Rostekh» za 2019 god [Annual report «State Rostec Corporation» for 2019]. URL: <https://rostec.ru/investors/#reports> (accessed: 30.10.2020).

DERYABIN Yuriy Anatolyevich, Graduate Student of Economics and Financial Policy Department.

SPIN-code: 7642-7164

AuthorID (RSCI): 927227

ORCID: 0000-0002-0185-5970

Address for correspondence: yura_d_83@mail.ru

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