ANNOTATION OF THE ARTICLE

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AGRARIAN POLICY OF THE SAMARA REGION IN THE CONDITIONS OF IMPORT SUBSTITUTION

The need for ensuring the food security of the Russian Federation has become of paramount importance for domestic farmers. Its implementation required the development of new measures of state support both at the federal and regional levels aimed at stimulating accelerated import substitution in the agro-industrial complex. The purpose of the work is to characterize the changes that have occurred in the agrarian policy of the Samara region in 2014–2017, to assess their effectiveness and performance, and to prepare proposals for their improvement. The paper compares the volumes and directions of budget funds allocated for the development of the region's agriculture before and after the introduction of the sanctions regime. The author's assessment of the results obtained from the changes was given. Suggested and justified are the priority directions for changing measures of state support and state regulation aimed at accelerating development and increasing competitiveness of priority sectors of the regional agribusiness.

Keywords: agrarian policy, food security, import substitution, state support, cluster, innovation, efficiency, competitiveness

References

1. Altukhov, A.I. State support of agriculture is the basis for improving the territorial and sectoral division of labor in the country's agro-industrial production / A.I. Altukhov // Economics of agricultural and processing enterprises. – 2017. – Vol. 11. – pp. 2-9.

2. Dudin, M.N. The policy of import substitution is a new vector of development of the Russian agrocomplex / M.N. Dudin and oth. // Economics of Agriculture in Russia. – 2017. – Vol. 5. – pp. 25-29.

3. Nekrasov, R.V. Improving the system of state support for the agro-industrial complex of the Samara Region: monograph / R.V. Nekrasov, D.S. Alexanoff, A.F. Korolkov, V.V. Priemko, O.F Pyatov, O.V. Chumakova, S.M. Mirgazimova, D.N. Boldov. – Moscow: Publishing house RGAU-MSHA named. K.A. Timiryazev, 2010. – 191 p.

4. Nekrasov, R.V. Development of the export potential of the grain industry of the Samara Region / R.V. Nekrasov // Bulletin of the Samara State Economic University. – 2015. – Vol. 12 (158). – pp. 43-49.

5. Nekrasov, R.V. Transformation of the system of state support for the agrarian cluster of the Samara Region in the conditions of economic sanctions / R.V. Nekrasov // Scientific and information support of innovative development of agroindustrial complex. – Moscow: «Rosinformagrotech», 2016. – pp. 70-73.

6. Pavlenko, N.A. Strategy of agrarian policy and its peculiarity in ensuring food security of the country / N.A. Pavlenko, V.Yu. Kuznetsov // Internet-journal «Scientology». – 2017. – Iss. 1. – Vol. 9. [Electronic resource] – Access: http://naukovedenie.ru/PDF/74EVN117.pdf – (reference date: 15.01.18).

7. Food security, ecology and health of the nation (monograph) / V.G. Larionov, A.G. Badalova, V.V. Larionov, TL. Bezrukov / ed. Badalova A.G and Larionov V.G. – Moscow: Ruscience, 2017. – 208 p.

8. The ruble gave ten incomes // News bulletin of the Ministry of Agriculture of Russia. -2017. - Vol. 10. - pp. 7-9.

9. Decrease in support will slow down the agroindustrial complex // News bulletin of the Ministry of Agriculture of Russia. – 2017. – Vol. 4. – pp. 7-8.

10. Snitko, D. Import substitution in the agro-industrial complex of Russia / D. Snitko, I. Rubanov, A. Fomin / [Electronic resource] – Access: http://qje.su/ekonomika-apk/perspektivy-importozameshheniya-v- agropromyshlennom-komplekse-rossii / – (reference date 15.01.18).

11. Khukhrin, A.S. Agroindustrial Clusters of Russia: Contours of the Future / A.C. Khukhrin, O.I. Bundina, I.Yu. Agnaeva // Economics of agricultural and processing enterprises. – 2016. – Vol. 12. – pp. 11-23.

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ASSESSMENT OF THE IMPACT OF INTER-REGIONAL INTEGRATION ON THE ECONOMIC EFFICIENCY OF THE FUNCTIONING OF THE REGIONS OF THE RUSSIAN FEDERATION (ON THE EXAMPLE OF THE VOLGA FEDERAL DISTRICT)

The relevance of the research problem due to the fact that the functioning and development of regional economic complex is not in isolation, but in relationship with other regions and the outside world. Interregional economic relations represent a system of economic relations and interests of the regions, which develop in the process of financial and economic activities and intensive integration of regional markets within production chains. The purpose of this article is to evaluate the effectiveness of the functioning of the economies of individual regions of the Volga Federal district and interregional economic system as a whole. In the course of the work the degree of correlation of both intraregional and interregional indicators was determined by. The main result of the study is the approach assessment of the interregional economic system, based on socio-economic and transport indicators of the regions.

Keywords: the economy of the region, interregional integration, correlation, synergy, transport and logistics infrastructure

References

1. Burov, M.P. System of regulation economic interaction of regions / M.P. Burov. – Moscow: Dashkov & Ko, 2008. – 257 p.

2. Glushenkova, E.V. The influence of synergetic effect on the performance of inter-regional economic system / E.V. Glushenkova // The Synergy of natural, technical and socio-economic systems: collection of articles of the XIV international scientific conference 25-26 May 2017, Togliatti / The Ministry of Education and Science of the Russian Federation, Federal State Budgetary Educational Institution of Higher Education «Volga Region State University of Service». – Togliatti, 2017. – pp. 196-199.

3. Kleiner, G.B. Regional mesoeconomic systems: monograph / G.B. Kleiner. – Moscow: Science, 2011. – 994 p.

4. Povarov, G.V. The role of transport in the Russian economy / V.G. Povarov, A.V. Seleznev // Transport business in Russia. – 2015. – Vol. 6 – pp. 286-287.

5. Rakhmangulov, A.N. The location of regional logistics centers: monograph / A.N. Rakhmangulov, O.A. Kopylova. – Magnitogorsk: Magnitogorsk State Tech. Univ. named after G.I. Nosov, 2015. – 172 p.

6. Samuelson, P.A. Macroeconomics / P.A. Samuelson, W.D. Nordhaus. - Moscow: Dialectics, 2009. - 585 p.

7. Saralidze, A.M. Interregional economic integration as a factor of development of innovative economy / A.M. Saralidze // Economics, Statistics and Informatics. – 2013. – Vol. 6. – pp. 101-105.

8. Strategy for socio-economic development of Volga Federal district for the period up to 2020 [Electronic resource] / The decree of the Russian Government dated 7 February 2011, 165 p. – Access: http://kpfu.ru/portal/ docs/F941756394/Strategiya.strategicheskogo.razvitiya.PFO.do.2020.goda.pdf – (reference date: 05.09.2017).

9. Eichler, L.V. Theoretical understanding of integration processes on transport (for example road transport) / L.V. Eichler // Bulletin of Tomsk State University. – 2012. – Vol. 365. – pp. 125-132.

10. Begg, D. Economics/ D. Begg, S. Fischer, R. Dornbusch. – New York: McGraw-Hill. – 2005. – Vol. 8. – pp. 549-560.

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ORGANIZATIONAL ECONOMIC MECHANISM OF USING OUTSOURCING AT AN INDUSTRIAL ENTERPRISE

The active use of outsourcing in recent decades in various spheres of economic activity generates the need for its system research, but most scientific publications cover only some aspects of this complex problem. In this connection, the task of accumulating and using available scientific developments of a theoretical, methodical and applied nature on issues of effective interaction of subjects within the framework of the outsourcing mechanism is urgent.

Purpose of the study: based on the review and system analysis of scientific works on various types of outsourcing as a form of inter-firm cooperation, it is necessary to propose a structural-logical model of the organizational and economic mechanism of outsourcing. Research methods: monographic method, structural-functional method, system analysis, general scientific methods - of formalization, generalization, comparison and others.

Results of the study: an organizational and economic mechanism for outsourcing in industrial enterprises was developed that includes theoretical components (principles, functions, tasks, risks, impact factors, methods and approaches) and applied components (methodical, normative-legal, technical, information). The content, significance and role of components are revealed. It is shown that the organizational effect of the proposed mechanism is expressed in the transformation of the organizational structure of the firm, since in its management there is a reduction of horizontal and vertical ties through the transfer of individual processes to the external executor. The economic effect is achieved by reducing the costs of implementing the transferred process. At the same time, the competitive advantages and quality of servicing of this process are increasing. The mechanism has passed approbation at the enterprises of electric power industry in the Orenburg region.

Keywords: outsourcing, organizational and economic mechanism, theoretical and applied components.

References

1. Voronin, A.E. Management of industrial enterprises on the basis of outsourcing / A.E. Voronin // Bulletin of the Saratov State Socio-Economic University. – 2009. – Vol. 4. – pp. 91-95.

2. Degtyaryova, T.D. Analysis of methodological approaches to business organization through outsourcing / T.D. Degtyaryova, A.L. Kryuchkov // Proceedings of the Orenburg State Agrarian University. – 2014. – Vol. 4 (48). – pp. 232-235.

3. Dzhuparova, I.A. Outsourcing in pharmacy chain management / I.A. Dzhuparova // Medicine and Education in Siberia. – 2015. – Vol. 2. – pp. 8-9.

4. Isavnin, A.G. Method of assessing the feasibility of manufacturing outsourcing / A.G. Isavnin, I.I. Farhutdinov // Regional Economics: Theory and Practice. – 2013. – Vol. 4. – pp. 16-20.

5. Kostenko, P.M. Methods of estimating the risks of outsourcing / P.M. Kostenko, Y.A. Minenkova, N.P. Karpova // Concept. – 2014. – Vol. 5. – pp. 136-140.

6. Kryuchkov, A.L. Outsourcing and insourcing: advantages and limitations / A.L. Kryuchkov, T.D. Degtyaryova // Actual problems of regional development: Inter-university collection of scientific works. – Issue 12. – Orenburg: Printing house «South Urals», 2017. – pp. 97-104.

7. Kryuchkov, A.L. Management of outsourcing risks in the enterprise / A.L. Kryuchkov // Actual problems of regional development: Inter-university collection of scientific works. – Issue 11. – Orenburg: Orenburg State Agrarian University, «University», 2016. – pp. 52-61.

8. Kurbanov, A.H. Algorithm of outsourcing relations management [Electronic resource] / A.H. Kurbanov. – Access: http://sisp.nkras.ru/issues/2012/-1/kurbanov.pdf – (reference date: 17.03.2017).

9. Kurbanov, A.H. The concept of outsourcing processes and its practical application / A.H. Kurbanov // Proceeding of the South-West State University. Economy. Sociology. Management. – 2011. – Vol. 2. – pp. 113-118.

10. Mansurova, N.A. The decision-making support in transition to HR-outsourcing / N.A. Mansurova, S.V. Mardiyan // Bulletin of the Tver State University. Series «Economics and Management». -2016. -Vol. 2. -pp. 151-158.

11. Makhmutov, I.I. Methods and models of outsourcing / I.I. Makhmutov, I.A. Murtazin, N.V. Karpova // In the World of Scientific Discoveries. – 2015. – Vol. 1 (61). – pp. 80-104.

12. Platonova, E.D. Training Outsourcing Relationship Manager: what should he know about outsourcing? [Electronic resource] / E.D. Platonova, O.D. Fedotova, S.B. Denisov.– Access: http://naukovedenie.ru/sborn-ik12/12-65.pdf – (reference date: 27.08.2017).

13. Tolstosheina, V.A. Economic aspects of improvement of the quality management system of the organization on the basis of outsourcing / V.A. Tolstosheina // Scientific and technical statements of St. Petersburg state Polytechnical University. -2012. - Vol. 1. - pp. 167-170.

14. Firsova, N.N. The methodology of management decisions to reduce business risks for the mutual financial and accounting outsourcing [Electronic resource] / N.N. Firsova. – Access: http://ej.kubagro.ru/2012/09/pdf/29. pdf – (reference date: 12.03.2017).

15. Yuriev, S.V. Outsourcing as Element of the Modern Economic Relations in RF [Electronic resource] / S.V. Yuriev. – Access: http://mespb.ru/d/179743/d/autsorsing.pdf – (reference date: 09.01.2017).

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METHODICAL TOOLS OF THE SELECTION OF MANAGEMENT INNOVATION PROJECTS OF THE BALANCED STRATEGY OF INDUSTRIAL ENTERPRISES DEVELOPMENT

The relevance of the issue determined by the necessity of increasing the innovative activity of domestic enterprises, which can be achieved by providing a balanced strategic development, production and management sphere on the basis of a harmonious application of technological forms of innovation and innovation in the management system.

The method of selection is aimed at forming optimal balance portfolio of strategy of innovative development of the enterprise is proposed in the article. Its application will allow to select the projects of management innovations, the implementation of which will allow to create necessary conditions for the development and implementation of innovations in the industrial sector.

The proposed methodological tools of selection are based on the development of the method of analysis of hierarchies T. Saaty, based on the system analysis. The criteria for optimal choice are criteria of the resource, structural and functional balance. The compliance of innovative projects by the balance criteria will ensure the creation of necessary conditions for the implementation and management strategy.

The practical testing method has allowed identifying the priority from the standpoint of the balance of the management innovations project. It will contribute to the success of the implementation of the strategy of innovative development.

The use of hierarchies in terms of a balance for the selection of projects of management innovations will allow for informed choices of innovative projects development of management system. It will ensure the creation of necessary conditions for realization of innovative development strategy and achieving goals.

Keywords: balanced strategy, management innovation, analytic hierarchy process, criteria balance, methodological tools.

References

1. Asaul, A.N. Introduction to the innovation: the textbook / A.N. Asaul, V.V. Asaul, N.A. Asaul, R.A. Faltinsky; edited by A.N. Asaul. – St. Petersburg: «Institute of problems of economic revival», 2010. – 280 p.

2. Afonin, I.V. Innovative management and economic valuation of real investment. Homofaber series / I.V. Afonin. – Publishing house «Gardariki», 2006. – 301 p.

3. Batkovskiy, M.A. Model for Selection and Assessment of Organisational Innovation at an Enterprise Using the Mathematical Apparatus of Fuzzy Logic / M.A. Batkovskiy, P.A. Kalachikhin, Yu.F. Telnov // The Manager. – 2017. – Vol. 5 (69).– pp.18-25.

4. Belkin, V.D. Planned balance: the establishment, maintenance, effectiveness / V.D. Belkin. – Moscow: Economy, 1983. – 224 p.

5. Kiseleva, O.N. Conceptual approach to formation and realization of innovative development strategy of industrial enterprises / O.N. Kiseleva // Innovative development of economy. – 2017. – Vol. 4 (40). – pp. 68-78.

6. Kiseleva, O.N. Methodological approach to formation of system of enterprise management under conditions of management innovation / O.N. Kiseleva // Economics and management systems. – 2016. – Vol. 3 (21). – pp. 33-39.

7. Kleiner, G.B. System the balance of the economy: basic principles / G.B. Kleiner // System analysis in the economy. -2014. - Vol. 1. - pp. 9-18.

8. Mershiev, R.V. Problems of assessment of the effectiveness of innovation / R.V. Mershiev // Mining information-analytical Bulletin (scientific and technical journal). – 2010. – Vol. 5. – pp. 114-119.

9. Myakshin, V.N. The system of indicators to assess the balance of regional timber industry complex / V.N. Myakshin, T.N. Pesyakova // Forest journal. – 2008. – Vol. 4. – pp. 140-147.

10. Ryabov, V.M. The balanced development of industrial enterprises in conditions of innovative transformations / V.M. Ryabov // Bulletin of Samara state economical University. Economic sciences. – 2012. – Vol. 12 (98). – pp. 89-92.

11. Saaty, T.L. Decision making. Analytic hierarchy process / T.L. Saaty. – Moscow: Radio and communication, 1993. – 278 p.

12. Saaty, T.L. Analytical planning. Organization systems / T.L. Saaty, K.P. Kearns. - Moscow: Radio and communication, 1991. - 224 p.

13. Sultanov, A.R. Comprehensive assessment of the effectiveness of management innovation in industrial enterprises / A.R. Sultanov // Bulletin of the Altai Academy of Economics and Law. – 2015. – Vol. 2. – pp. 67-69.

14. Shemerova, O.G. Peculiarities of estimation of efficiency of innovative activity / O.G. Shemerova, G.V. Ismagilova // Management of innovation: theory, methodology, practice. – 2012. – Vol. 1. – pp. 80-85.

15. Anderson, R.E. Just get out of the way: how government can help business in poor countries / R.E. Anderson. – Washington: Cato Institute, 2004. – 274 p.

16. Lawler, E. Adaptive experiments: An approach to organizational behavior research / E. Lawler // The Academy of Management Review – 1977. – Vol. 2. – Vol. 4. – pp. 576-585.

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INSURANCE OF INTELLECTUAL PROPERTY IN THE IT-MARKETS: LESSONS FOR PUBLIC POLICY

The article discusses the most common programs of insurance of intellectual property rights in the world. The relevance of the problem is determined by the need of changes in regulatory requirements to the activities of insurance companies. The article is aimed at summarizing the current practices of system insurance intellectual property development in the IT - markets. A leading approach to the study is the analysis of contemporary sources, including plans for ongoing reforms in Australia and review insurance products in the United Kingdom. The results of the research can be used to the IT - companies and the insurance companies.

Keywords: results of intellectual activity, insurance, intellectual property, insurance of intellectual property, insultation insurance, responsibility insurance.

References

1. American Intellectual Property Law Association [Electronic resource] / American Intellectual Property Law Association – Access: https://www.aipla.org/about/newsroom/PR/Pages/150728PressRelease.aspx – (reference date: 06.01.2018).

2. Bryzgalov, D., Grishenkova, Yu., Tsyganov, A. How to preserve the intellectual property [Electronic resource] / Director Info. – Access: http://www.directorinfo.ru/Article.aspx?id=13350&iid=551 – (reference date: 06.01.2018).

3. Myagkova, Y.Y. Insurance of innovative risks: the author's abstract of the dissertation.... can. of Economical Sciences:: 08.00.10/ Myagkova Julia Yurievna. – Moscow, 2011. – 167 p.

4. The license of the insurance companies [Electronic resource] / Russian newspaper – Access: https://rg.ru/sujet/5736/– (reference date: 06.01.2018).

5. Patent trolls: Virnet X against Apple and Microsoft [Electronic resource] / Legal company of Jurvista – Access: // https://1patent.ru/blog/ibnprogrammsanddb/patentnye-trolli-virnetx-protiv-apple-i-microsoft.html – (reference date: 06.01.2018).

6. Patent Troll paid «Kaspersky Lab» for the opportunity to avoid a court trial [Electronic resource] – Access: https://geektimes.ru/post/292551/– (reference date: 06.01.2018).

7. Us, V.V. Insurance of intellectual property: from theory to practice over ten years / V.V. Us // Property relations in the Russian Federation. – 2013. – Vol. 12. – pp. 82-94.

8. Digital Russia: the new reality (July 2017) [Electronic resource] / McKinsey. – Access: https://www.mck-insey.com – (reference date: 06.01.2018).

9. Tsyganov, A.A. Modern trends in insurance provision of intellectual property in Russia and world practice of insurance / A.A. Tsyganov // Insurance. – 2014. – Vol. 13. – pp. 27-37.

10. Shastitko, A.E., Kurdin, A.A. Effects of distribution of market power of owners of essential facilities in the markets of software // Manager. – 2017. – Vol. 4(68). – pp. 43-52.

11. Shastitko, A.E., Kurdin, A.A., Morosanova, A.A. Restriction of competition in related markets software [Electronic resource] / Competition and law. – 2017. – Vol. 4. – Access: https://e.cljournal.ru/article. aspx?aid=581096 – (reference date: 06.01.2018).

12. Apple lost the case with the patent Troll and will pay \$440 million [Electronic resource] / iGuides.ru. – Access: https://www.iguides.ru/main/other/apple_proigrala_sud_s_patentnym_trollem_i_vyplatit_440_mln/ – (reference date: 06.01.2018).

13. Australian Government agency [Electronic resource] – Access: https://www.ipaustralia.gov.au – (reference date: 06.01.2018).

14. British Insurance Brokers' Association [Electronic resource] – Access: https://www.biba.org.uk – (reference date: 06.01.2018).

15. Gauntlett, D.A. Insurance Coverage of Intellectual Property Assets / D.A. Gauntlett. - Aspen Publishers, 2004

16. Insurance of intellectual property [Electronic resource] / Google Trends. – Access: https://trends.google.ru/ trends/ – (reference date: 06.01.2018).

17. Intellectual property insurance [Electronic resource] / Government of the United Kingdom. – Access: https://www.gov.uk/guidance/intellectual-property-insurance – (reference date: 06.01.2018).

18. IP Australia Corporate Plan 2017-2021 [Electronic resource] – Access: https://ipaustralia.govcms.gov.au/ sites/g/files/net856/f/ip-australia-corporate-plan-2017-21.pdf – (reference date: 06.01.2018).

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CASCADING OF THE SYSTEM OF BALANCED SCORECARDS AS A TOOL FOR IMPROVING THE EFFECTIVENESS OF THE BUSINESS BANK'S ACTIVITIES

In the practice of modern enterprise management, Balanced Scorecards (BSS) systems are increasingly being introduced at the corporate level. However, the issues of distribution of the MTSP to the levels of the units remain insufficiently developed. In this regard, the goal of the work is to develop a technology for cascading a balanced scorecard (BSS) using the example of a commercial bank using fuzzy logic models. As methods of research, the possibilities of realizing the cascading of the SSP on the basis of the apparatus of the theory of fuzzy sets are demonstrated. The implementation of this approach for departmental levels becomes a link between the strategy of the enterprise and tactical solutions for its implementation. The cascading of the balanced scorecard will lead to more effective support of the activities of employees and managers, which, in turn, will ensure the necessary level of reliability of the performed processes and increase their productivity.

Conclusions. Cascading of the SSP allows implementing the planned strategies by developing balanced scorecard systems for the lower levels of the organization. These systems, being influenced by the favorable opportunities and problems existing on the ground, contribute to the unity of the organization regarding the mission and strategy.

The materials of the article may be of interest for managers and employees of IT departments when implementing the BSC and cascading it to departmental levels.

Keywords: balanced scorecard, performance indicators, cascading.

References

1. Bloomfield, C. Introduction of a balanced system of evaluation indicators: Methodology Microsoft Balanced Scorecard Framework. [Electronic resource] – Access: http://msdb.ru/Downloads/business/efficiency / bsc. doc / – (reference date: 15.03.2017).

2. Kaplan, R. Balanced Scorecard. From strategy to action / R. Kaplan, D. Norton. Trans. from English. – Moscow: «Olimp–Business», 2003. – 304 p.

3. Kripak, E.M. Development of a balanced scorecard for assessing the efficiency of the architecture of a commercial bank enterprise / E.M. Kripak, V.V. Kripak, V.V. Semenov // Intellect. Innovation. Investments. – 2016. – Vol. 12. – pp. 58-63.

4. Kripak, E.M. Evaluating the effectiveness of the business process «Customer Service» on the basis of simulation / E.M. Kripak, V.V. Semenov / University complex as a regional center of education, science and culture [electronic resource]: Proceedings of the All-Russian Scientific Conference; Orenburg. St. Univ. – Electron. published. – Orenburg: OSU, 2016. – pp. 1681-1687.

5. Kurnosova, E. The basic methods of evaluating the effectiveness of the financial strategy of the organization // Actual problems of economic Sciences. – 2016. – Vol. 49. – pp. 221-231.

6. Krilov, S. Cascading of the balanced scorecard // International accounting. - 2013. - Vol. 44. - pp. 2-13.

7. Margania, K. Performance management of Russian enterprises on the basis of a balanced system of indicators // Bulletin of the University (State University of Management). – 2008. – pp. 122-125.

8. Mikheenko, Y. Balanced scorecard as a tool to improve the efficiency of business activity: the author's abstract of the dissertation.... can. of Economical Sciences: 08.00.05 / Julia Mikheenko. - Moscow: 2010. - 32 p.

9. Niven, P.R. The process of developing the MSP for each level of the organization [Electronic resource] – Access: http://www.cfin.ru – (reference date: 15.03.2017).

10. Palkina, E. Balanced Scorecard as an Instrument for Implementing the Company's Growth Strategy // Initiatives of the 21st Century. – 2013. – pp. 23-27.

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RISKS OF OPEN INNOVATION MODEL AND THEIR NEUTRALIZATION IN THE STATE INNOVATION POLICY

The article deals with the problem of finding the optimal innovative openness of companies, taking into account the risks of the open innovation model. Purpose of research – evidence and systematization of risks of the open innovation model at the macrolevel of the economy. The article deals with scientific-factual, descriptive and retrospective analysis, as well as methods of system, comparative analysis, classification and analogy. Attention is drawn to the dual nature of the impact of "open innovation" risks: reduction due to the distribution of innovation activities risks between the innovation network participants and at the same time increase due to the emergence of innovation security risks. As results of the research four groups of the open innovation model risks are presented ("devastation" of the innovation sector, the reduction of competition in innovative markets, loss of intellectual property control, costs of relations coordination between partners). Causes of these risks are analyzed in each group and directions of their neutralization are proposed including instruments of state regulation that can increase the validity of managerial decisions for the development of cooperative innovation processes within the framework of state innovation policy.

Keywords: risks, open innovation, innovation openness, innovation policy, state regulation.

References

1. Alekhina, O.F. Personnel and Information Technology Safety of Russia / O.F. Alekhina, O.F. Udalov // Bulletin of State Univ. of Nizhny. Novgorod named after N.I. Lobachevski. – 2002. –Vol. 1. – pp. 28-33.

2. Burets, Yu.S. Management of integration interactions based on diagnostics of innovation process discontinuities / Yu.S. Burets // International Research Journal. – 2016. – Vol. 8 (50). – pp. 21-25.

3. The war between Google and Microsoft and the harm of patent law [Electronic resource] / Zakon.ru – the

first social network for lawyers. – Access: http://zakon.ru/Blogs/vojna_mezhdu_google_i_microsoft_i_vred_patentnogo_prava/940 – (reference date: 15.03.2013).

4. Medovnikov, D. Implicit knowledge of the pyramid builders / D. Medovnikov, T. Oganesyan // Expert. – 2012. – Vol. 12. – pp. 18-25.

5. Nikulina, I.E. Formation of interregional interaction in the innovative activity sphere on the basis of the innovation process discontinuities diagnostics / I.E. Nikulina, Yu.S. Burets // Economics and Entrepreneurship. – 2016. – Vol. 12 (2). – pp. 346-349.

6. Fedorov, V.K. About unconditional principles and contradictions of open innovation development / V.K. Fedorov, I.K. Epaneshnikova, A.N. Ganza // Innovations. – 2010. – Vol. 7 (141). – pp. 116-119.

7. Bower, D.J. Conflict and cooperation in technology-based alliances / D.J. Bower, W. Keogh // International Journal of Innovation Management. – 1997. – Vol. 1 (4). – pp. 387-409.

8. Enkel, E. Open R&D and open innovation: exploring the phenomenon / E. Enkel, O. Gassmann, H. Chesbrough // R&D Management. – 2009. – Vol. 39 (4). – pp. 311-316.

9. Hoecht, A. Innovation risks of strategic outsourcing / A. Hoecht, P. Trott // Technovation. - 2006. - Vol. 26. - pp. 672-681.

10. Huang, F. Does open innovation work better in regional clusters? /F. Huang, J. Rice // Australasian Journal of Regional Studies. – 2013. – Iss. 1. – Vol. 1. – pp. 85-120.

11. Laursen, K. The paradox of openness: Appropriability, external search and Collaboration [Electronic resource] / K. Laursen, A. Salter. – Access: http://www.sciencedirect.com/science/article/pii/S0048733313001832 – (reference date: 18.06.2015).

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INNOVATION IN HEALTH SERVICES: CHARACTERISTICS, TRENDS, PRIORITIES

The relevance of the researched problem stems from the need for a thorough justification for innovative solutions in the field of health services. The purpose of article is to study the specifics of innovation in health services, development trends, priorities of public funding of innovation in medicine. Leading method to study this problem is the analytical method, which enables you to substantiate the author's point of view. In the article, the author reveals the meaning of «innovation», «innovation in health», «innovative medical services». The differences between the innovative health care and high-technology medical care are identified. Examples of product and technological innovation are capable of becoming the basis of innovative medical services. Justifying the relevance of marketing innovation in health services is their specificity. The author characterizes the factors shaping innovation development in the health sector: scientific and technical progress, the emergence of the consumer society, the globalization of the economy, changes in the priorities of the State and business. Proven priority financing of innovative medical services in the area of disease prevention. The material of the article can be useful both for further scientific justification of the ways of development of the health sector, and to develop practical solutions to the market development of innovative medical services.

Keywords: innovation, innovative development in the health sector, innovative health services, disease prevention.

References

1. Bateneva, T. Molecule per billion/ T. Bateneva //Russian Business Newspaper (Innovations). – 2012. – Vol. 832. – p. 9.

2. Baudrillard, J. Consumer society. Its myths and structures / J. Baudrillard. – Moscow: Cultural revolution: the Republic, 2006. – 269 p.

3. Dumoulin, I. International trade services / I.I. Dumoulin. - Moscow: Press «Economy», 2003. - 256 p.

4. Ivanov, V. V. Medical management / V.V. Ivanov, P.V. Bogachenko. - Moscow: INFRA-M, 2007. - 256 p.

5. Ishmukhametov, A. Innovative medicines: prospects for therapy of severe diseases / A. Ishmukhametov// Remedium. – 2011. – Vol. 5. – pp. 8-13.

6. Methodological framework and mechanisms to ensure quality of care / O.P. Shchepin, V.I. Starodubov, A.L. Lindenbraten, G.I. Galanova. – Moscow: Medicine, 2002. – 176 p.

7. Petrova, N.G. Marketing basics healthcare services / N.V. Petrov, N.I. Vishnyakov, S.A. Balohina, L.A. Teptina. – MEDpress-inform, 2008. – 112 p.

8. Sadovnichy, V.A. From tradition to innovation: health care reform in the modern world / V.A. Sadovnichy, N.S. Grigoryeva, T. Chubarova. – Moscow: Economy, 2012. – 286 p.

 Surin, A.V. Innovation management / A.V. Surin, O.P. Molchanova. – Moscow: INFRA-M, 2008. – 368 p. 10. Chubarova, T.V. Russian Health Reform: development options / T.V. Chubarova // Health management. – 2008. – Vol. 3. – p. 35.

11. Sheiman, I.M. Theory and practice of market relations in the healthcare / I.M. Sheiman. – Moscow: Publishing house «State University Higher School of Economics», 2008. – 318 p.

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TRENDS ANALYSIS, AS AN INFORMATION BASE FOR STRATEGY DEVELOPMENT.

The key step in the strategic planning process is the analysis of the external and internal environment, which allows you to collect and interpret the information necessary for the development of the strategy. The purpose of this article is to justify the need to complement existing methods of analyzing the organization's macroenvironment using trend analysis, to show that trend analysis is a proactive method, unlike existing reactive methods. Analysis of trends is relevant, as it allows you to get information not only about the current state of affairs, but also about the prospects, trends in the development of certain factors, macroenvironment, which must be taken into account already now when developing a strategy. This is a new look at the formation of an information base for strategy development, a view from the future to the present. The aim of the article is to reveal the importance of analyzing trends, correctly interpreting them and generating new, creative information for strategy development, not from the analysis of the past, but analyzing the probable future. Trend analysis includes consideration of economic and geopolitical trends, technological, social and behavioral trends. The authors also proposed a tabular form for conducting trend analysis, which makes it convenient to present and structure the collected information.

Keywords: macro-environment analysis, trend, dynamics, strategy development, environmental factors, information base.

References

1. Antonenko, S. Social networks in Russia today: figures, trends, forecasts [Electronic resource] / S. Antonenko. – Access: // http://www.cossa.ru/155/31973/ – (reference date: 12.12.2017).

2. The Great Soviet Encyclopedia: [in 30 tons] / Ch. ed. A.M. Prokhorov. – 3rd ed. – M.: Soviet Encyclopedia, 1969-1978.

3. Kim, C., Morborn, R. The Blue Ocean Strategy / C. Kim, R. Mooburn. – Publishing House Mann, Ivanov and Ferber, 2017. – 336 p.

4. PEST-analysis: 3 illustrative examples of compilation [Electronic resource] – Access: http://www.gd.ru/ articles/8800-pest-analiz – (reference date: 14.12.2017).

5. Safina, D.M. Factors hindering creative thinking in the organization / D.M. Safina// Bulletin of the Economics of Law and Sociology. – 2014. – Vol. 4. – pp. 89-92.

6. Skripunov, A. «Index of Faith»: How many people in Russia are actually Orthodox [Electronic resource] / A. Skripunov – Access: https://ria.ru/religion/20170823/1500891796.html – (reference date: 2.12.2017).

7. Trends of wholesale trade in Russia and in the west [Electronic resource] / News and methodical materials about e-commerce and retail. – Access: //https://www.shopolog.ru/metodichka/analytics/trendy-optovoy-torgovli-v-rossii-i-na-zapade/ – (reference date: 16.12.2017)

8. Hill, S. 60 trends for 60 minutes / S. Hill. - Publisher: Krylov, 2004. - 352 p.

9. Jenkins, W. Williamson, D. Strategic Management and Business Analysis/ W. Jenkins, D. Williamson. – Routledge, 2016. – 310 p.

10. Religious Belief and National Belonging in Central and Eastern Europe [Electronic resource] – Access: // http://www.pewforum.org/2017/05/10/ – (reference date: 6.02.2018).

11. Roztocki, N. Information and Communication Technology in Transition Economies: An Assessment of Research Trends / N. Roztocki, H.R. Weistroffer, Journal Information Technology for Development. – 2015. – Vol. 21. – pp. 330-364.

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APPROACHES TO THE CONSTRUCTION OF THE SKORING SYSTEM OF INTEGRATED ASSESSMENT OF CREDITORITY OF POTENTIAL BORROWERS

The urgency of the problem is caused by the need to improve approaches and methods for assessing the creditworthiness of borrowers in the current economic and financial conditions for the development of banking institutions. The article is aimed at systematization and comparative analysis of formalized methods of building credit scoring. Among the main algorithms and techniques, the authors singulate discriminant analysis models that make it possible to distribute potential borrowers to one or another group of clients in order to minimize the bank's risks; binary choice models that describe the relationship between customer characteristics of customers and the likelihood of their meeting financial obligations. Considered in the article algorithm Random Forest allowed to systematize the characteristics characterizing the borrower, to obtain an unambiguous algorithm for determining the potential solvency of customers. The obtained results can be used by banking institutions to improve the quality of the credit portfolio of risks, increase the accuracy of the borrower's assessment, and also in order to reduce the level of defaults, reduce the formed reserves for possible losses on credit obligations.

Keywords: creditworthiness, the borrower's credit rating system, credit scoring, scoring model, binary choice models, decision trees.

References

1. Bunge, N.H. The theory of credit [Electronic resource] / N.H. Bunge. –Access://yadi.sk/d/ebp1bM022bciP – (reference date: 18.01.2018).

2. Vyskrebentseva, A.S. Analysis of quantitative and qualitative components of the creditworthiness of the enterprise: monograph /A.S. Vyskrebentseva. – Barnaul: Publishing house Alt. State Univ., 2014. – 146 p.

3. Endovitsky, D.A. Analysis and assessment of the borrower's creditworthiness / D.A. Endovitsky, I.V. Bocharova. – Moscow: KnoRus, 2015. – 234 p.

4. Korobov, D.S. The history of modern credit scoring [Electronic resource] / D.S. Korobov, G.B. Kleiner // Problems of Regional Economics. Intrenet publishing house. – 2012. – Vol. 17. – Access: //www.regec.ru/ articles/2012/vol1/5.pdf – reference date: 27.12.2017).

5. Kryuchkov, S.A. Assessment of the creditworthiness of the borrower. Main indicators of evaluation [Electronic resource] / S.A. Kryuchkov. – Access:

//www.tusur.ru/filearchive/reports-magazine/2004-9-1/208.pdf - (reference date: 27.12.2017).

6. Cameron, E. Colin. Microeconometrics: methods and their applications. Book 2 / E. Colin Cameron, Pravin K. Triverdi; translation from the English; edited by B. Demesheva. – Moscow: Publishing house «Affair», 2015. – 644 p.

7. Loginov, D.V. Comparative characteristics of ways to assess the creditworthiness of a borrower-individual / D.V. Loginov // Business and problems of long-term sustainable social and economic development: a collection of scientific articles of students and graduate students, Vol. 14 / Under the general editorship of prof. V.V. Tumalev. – St. Petersburg: Institute of Business and Law, 2013. – pp. 25-29.

8. Maltsev, E.V. Scoring systems in lending to individuals / E.V. Maltsev // Banking Retail. – 2015. – Vol. 1. – pp. 1-5.

9. Petukhova, M.V. Clustering of individual borrowers by the level of defaults: a rating approach / M.V. Petukhova // Journal of the New Economical Assossiation. – 2012. – Vol. 2. – pp. 71-102.

10. Consumer lending in Russia: prospects and risks on the basis of household finance surveys [Electronic resource] / the official website of the Central Bank of Russia. – Access: //www.cbr.ru/Content/Document/ File/23500/analytic_note_170928.pdf – (reference date: 28.12.2017).

11. Prosalov, V.S. Problems of assessing the creditworthiness of clients of commercial banks: monograph / V.S. Prosalov. – Vladivostok: Publishing house VGUES, 2012. – 180 p.

12. Solozhentsev, E.D. Transparency of methods for assessing credit risks and ratings / E.D. Solozhentsev, V.V. Karasev, N.V. Stepanova. – St. Petersburg: Publishing house of the St. Petersburg University, 2010. – 198 p.

13. Stepanova, N.V. Logical and probabilistic model for assessing the credit risk of individuals in a commercial bank / N.V. Stepanova, E.D. Solozhentsev, A.V. Rybakov // Financial Risk Management. – 2010. – Vol. 4. – pp. 15-26.

14. Shahidi, A. Trees of decisions – general principles of work [Electronic resource] / A. Shahidi. – Access: http://www.basegroup.ru/library/analysis/tree/description/ – (reference date: 20.01.2018).

15. Shiryaev, A.M. Fundamentals of stochastic financial mathematics. Vol. 2 / A.M. Shiryaev. – Moscow: Fazis, 1999. – 544 p.

16. Beriman, L. Random Forests: Statistics Department / L. Beriman. –University of California, Berkeley, 2007. – 147 p.

17. Caouette, B. Managing credit risk: the great challenge for global financial markets / B. Caouette, E. Altman, P. Narayanan, R. Nimmo. – Oxford, England and Malden, Massachusetts: Blackwell Publishing, 2008. – 628 p.

18. Louppe, G. Understanding random forests from theory to practice / G. Louppe. – University of Liège. Faculty of Applied Sciences. Department of Electrical Engineering & Computer Science, 2003. – 384p.

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MONITORING AND DIAGNOSTICS OF INNOVATION DEVELOPMENT LEVEL OF MANUFACTURING SYSTEM

Too many transformations of present socio-economic and business environment, significant growth of its possibilities and need for actuality of creation and accelerated development of innovative manufacturing systems caused the actuality of this article.

The task of this article consists in reviewing innovative development patterns including production renewal, lowering of production cycle duration, work content and materials consumption, increasing productivity of labor upgrading production quality and also in elaborating complex method of monitoring of these processes.

Methods of contrastive analysis, coefficient analysis, method of dynamic classification and fuzzy sets theory's tools form the methodological basis of research.

As a result of theoretical review the article considers the patterns of innovation systems development and four most significant groups of areas to the innovative development are distinguished – production quality, innovative equipment, resources economy and technological process intensity. As a result of practical research the main rule of innovative level classification is formed, distinctive characteristics of each class are built. The diagnostic procedure is determined on the basis of monitoring of industrial objects (processes) totality, described by n-dimensional vector of quantitative indicators.

This article may be useful for manufacturing subdivision managers as the performed diagnostics and classification allows estimating the depth of enterprise innovative development, forming conclusions of dynamics, problems development guidelines of manufacturing system.

Keywords: innovative development, manufacturing system, dynamic classification, production rule, innovation activity indicators, fuzzyset, linguistic variable.

References

1. Gareev, T.F. Assessment of innovation effectiveness on the basis of fuzzy numbers / T.F. Gareev // Bulletin of the Kazan State Agrarian University. – 2008. – Vol. 4. – pp. 14-17.

2. Goncharova, E.V. Common thesis of innovative activities intensification at industrial enterprises / E.V. Goncharova // Problems of economic sciences. – 2008. – Vol. 14. – pp. 29-34.

3. Lapushinskaya, G.K. Industrial complex: Conception of innovation activity research and assessment: monograph / G.K. Lapushinskaya. – Grozny: Publishing house of Chechen State university, 2013. – 144 p.

4. Piven, A.V. The ways of increasing industrial enterprises innovation activity / A.V. Piven // Russian entrepreneurship. – 2007. – Vol. 8. – pp. 56-59.

5. Rogozin, I.V. An integrated approach to the evaluation of innovative activities of economic entities refining the scope / I.V. Rogozin // Transport business in Russia. – 2010. – Vol. 8. – pp. 19-20.

6. Serebrennikov, G.G. Structural analysis of manufacturing systems: principles, elements and methods: monograph / G.G. Serebrennikov. – Tambov: Tambov State Technical University, 2006. – 85 p.

7. Tomasova, D.A. Approachs and methods of assessment of enterprise innovation activity / D.A. Tomasova // Economics and management: Materials Annual Economic Scientific and Research conference 19-20 May 2014, Rostov-on-Don / Innovation Centre of Education and Science Development. – Rostov-on-Don, 2014. – pp. 131-142.

8. Folomev, A.N. Economic systems of innovative type: theory, methodology, practice: monograph / A.N. Folomev. – Moscow: Economics, 2001. – 397 p.

9. Shalynin, V.D. Approach to modeling the tasks of innovation transfer process on the basis of formalized ambiguity and fuzzy sets mechanism / V.D. Shalynin// Bulletin of the Saratov Institute Machine Building. – 2010. – Vol.1. – pp. 280-288.

10. Shugaeva, O.V. Stability of manufacturing systems and systematic structures: monograph / J.V. Shugaeva, E.N. Kuzbojev. – Kursk: Business polygraphy, 2010. – 128 p.

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PROGRESS IN CULTURE: VECTORS OF DEVELOPMENT OF COMPLEXITY

Complication is an objective trend that embraces nature and culture. Nature and culture allow us to observe the unfolding of diverse forms of complexity. At the same time, quite often, the general trends in the progressive development of techno sphere extrapolated to culture. The question arises: how much complexity and complication are suitable for describing culture and its specialized forms and what are the vectors of complication of culture? The aim of the work is to understand the role of complexity and trends of complexity in culture. On the basis of the dialectic approach fixed the problem of thinking about progress in culture and art, and the tendency of cultural complexity: an increase in «real» diversity, the virtualization of culture, «the spread of» epistemic objects, transformation, landmark – preferentiality. The author comes to the conclusion that progress in art may not be described as a transition from the simple aesthetic of forms to more complex. The measure of progress in art is the subjective ability of mankind to «encode» complex ideas in artistic forms, to state and concern the semantic complexity of an artistic work. Evolution and involution in art correlates with the complexity of thinking of both the author and the interpreter. The images of degradation, exhaustion of culture (popular in the twentieth century) author seen to be exaggerated. Progress in culture is contradictory. On the one hand, the cultural space of modern society is transformed under the influence of technically complex things and epistemic objects that change ideas about the reality and logic of cultural development. On the other hand, culture under the pressure of the described tendencies becomes more complicated in form, but at the same time it becomes more and more simplified, it breaks down into fragments, it begins to consist of separate images and signs that a person actively constructs and recombines.

Keywords: virtual reality, art, culture, simplicity, complexity, simplification, complication, epistemic object.

References

1. Baudrillard, J Simulacra and simulation / J. Baudrillard // The Philosophy in the era of postmodernism: a collection of translations and essays. – Minsk, 2000. – pp. 32-48.

2. Hegel, G.W.F. Science of logic / G.W.F. Hegel. In 3 vol. Vol. 1. – Moscow: Think, 1970. – 501 p.

3. Gutorov, V.A. About some tendencies of interpretation of the concept of progress in modern social theory / V.A. Gutorov // Questions of philosophy. – 2017. – Vol. 12. – pp. 32-43.

4. Ivakhnenko, E.N. Autopoiesis «epistemic things» as a new horizon of constructing social theory / E.N. Ivakhnenko // Bulletin of the Russian state University for the Humanities. – 2015. – Vol. 5 (148). – pp. 80-91.

5. Lorenz, K. Kant's concept of the «apriori» in the light of modern biology / K. Lorenz // Evolutionary epistemology. Anthology / Science editor E.N. Knyazeva. – Moscow: Center of Humanitarian Initiatives, 2012. – pp. 43-75.

6. Lorenz, K. On the other side of the mirror biology / K. Lorenz // Evolutionary epistemology. Anthology/ Science editor E.N. Knyazeva. – Moscow: Center of Humanitarian Initiatives, 2012. – pp. 76-110.

7. Slastenin, V.P. Category of simplicity in modern architecture / P.V. Slastenin // Urban planning and architecture. – 2011. – Vol. 3. – pp. 6-8.

8. Smirnova, N.M. The concept of complexity in the cognitive analysis of the communicative and conceptual characteristics of social reality / N.M. Smirnov // Bulletin of the Tomsk state pedagogical university. – 2013. – Vol. 1 (129). – pp. 169-175.

9. Horuzhiy, S.S. Rod or crop failure? Notes to the ontology of virtuality / S.S. Khoruzhii // Questions of philosophy. – 1997. – Vol. 6. – pp. 53-68.

10. Beck, U. World at Risk / U. Beck. - Cambridge: Polity Press, 2010. - 240 p.

11. Rheinberger, H.-J. Toward a History of Epistemic Things / H.-J. Rheinberger. – Stanford: Stanford University Press, 1997. – 325 p.

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SOCIAL RESPONSIBILITY OF POWER: ESSENCE, FORMS AND TRENDS

The paper presents a socio-philosophical analysis of government social responsibility of the authorities. The study contains an explication of this phenomenon from the position of the system approach: the structure of the responsibility of power as a system is disclosed, its elements are described. The social responsibility of power is presented as a construct that presents certain powerful messages, influences the evaluation of political reality by the object of power. The criteria for this phenomenon and levels of responsibility of the authorities are indicated. The study presents the content of social responsibility in various political environments. The basic mechanisms of the formation and implementation of the social responsibility of power process are presented. The subject of the social responsibility of the authorities within the framework of the power process are presented. The subject of this study is the social responsibility of the authorities as an open system. The work contains an analysis of the mechanisms for realizing the construct of social responsibility of the authorities from the standpoint of achieving national interests. The purpose of this work is to explicate the social responsibility of the authorities, to investigate the mechanisms for implementing the construct of responsibility.

Keywords: social responsibility of authority, power, imperious process, political environment.

References

1. Abulkhanova, K.A. Psychology and consciousness of the person (Problems of methodology, theory and research of the real person): Selected psychological works. Moscow: Moscow Psychological and Social Institute; Voronezh: Publishing house «MODEK», 1999. – 224 p.

2. Bourdieu, P. Social space and symbolic power // THESIS: theory and history of economic and social institutions and systems. – 1993. – Vol. 2. – pp. 137-150.

3. Battler, A. National interests, national and international security / Polisy. Political studies. – 2002. – Vol. 4. – pp. 146-158.

4. Vasilkova, V.V. Order and chaos in the development of social systems: (Synergetics and the theory of social self-organization). Series: «The world of culture, history and philosophy». – St. Petersburg: Publishing House «Fellow deer», 1999. – 480 p.

5. Demchenko, E.N. Modern social policy: the urgency of the philosophical approach / E.N. Demchenko, Omsk scientific herald. – 2008. – Vol. 6 (74). – pp. 84-88.

6. Koltsov, V.A. Philosophical foundations of the concept of national security. – Nizhny Novgorod, 2006. – 174 p.

7. Konstantinova, L.V. To the concept of «social policy» in modern social theory // Administrative consulting. – 2005. – Vol. 2. – pp. 108-124.

8. Kushchenko, S.V. Social policy of the state as a tool for managing complex systems // Bulletin of Tomsk State University. – 2013. – Vol. 372. – pp. 64-66.

9. Montesquieu, Sh. L. On the spirit of the laws / Comp., erans. and comments. A.V. Mateshuk. – Moscow: Thought, 1999. – 674 p.

10. Pobedonostsev, K.P., Rostunova, S.A., Lanshikov, A.P. The great lie of our time. – Moscow: The Russian Book, 1993. – 208 p.

11. Senchagova, V.K. Economic Security of Russia [Electronic recourse] / V.K. Senchagova. – Access: http:// files.pilotlz.ru/pdf/cE2605-1-ch.pdf – (reference date: 22.06.2017).

12. Solov'ev, V.S. Justification of Good / V.S. Solov'ev // Thesis in 2 Vol., Vol.1. - Moscow, 1990. - 365 p.

13. Sorokin, P.A. Human. Civilization. Society. - Moscow, 1992. - 393 p.

14. The philosophy of power: Gadzhiev, K.S., Ilyin V.V., Panarin A.S., Ryabov A.V. / Ed. by V.V. Ilyin. – Moscow: Publishing house of Moscow University, 1993. – 271 p.

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RATIONAL AND IRRATIONAL IN THE SUBJECT OF SCIENTIFIC KNOWLEDGE

The problem of rational and irrational in the history of European philosophy has a long history, and today, within the framework of modern epistemology, has not lost its relevance. Such an interest in the irrational problem is associated with changes in the traditional notions of scientific rationality.

In the article the presence of irrational moments opens up in the article of scientific cognition in a context classic and non classical types of scientific rationality. In classic scientific rationality the irrational confesses only as a transient aspect rational, as yet-not-rational, ungot to know in the object of cognition, subject «to the removal» in the process of the theoretical mastering of object. Non classical rationality deepens on ideas about the presence of irrational moments in the article of scientific cognition, asserting a presence at the scientific free choice of the truths of science, «pictures of reality» in accordance with the occupied «points of review».

Keywords: science, object of cognition, article of cognition, subject of cognition, scientific rationality, irrational, truth

References

1. Bashirova, T.A. Non-traditional risks of modern society / T.A. Bashirova, V.A Zhilina // Social Norms in the Conditions of Modern Risks Materials of the International Scientific and Practical Conference. – Chelyabinsk: Chelyabinsk State University, 2017. – pp. 22-24

2. Zhilina, V.A. Culture as the deployment of human intelligence / V.A. Zhilina // Questions of Culturology. – 2009. – Vol. 7. – pp. 12-16.

3. Mamardashvili, M.K. Classical and nonclassical ideals of rationality / M.K. Mamardashvili. – Moscow: Labyrinth, 1994. – 210 p.

4. Mudraige, I.S. Rational and irrational – the philosophical problem (reading A. Schopenhauer) / I.S. Mudragey // Questions of Philosophy. – 1994. – Vol. 9. – pp. 32-40.

5. Rozin, V.M. Styles and discourses of scientific thinking / V.M. Rozin. – Moscow: Editorial URSS, 2000. – 248 p.

6. Stepin, V.S. Activity concept of knowledge / V.S. Stepin // Problems of philosophy. – 1991. – Vol. 8. – pp. 129-138.

7. Teplykh, M.S. The Role of faith in the creative process of scientific knowledge / M.S. Teplykh// Bulletin of Chelyabinsk University. – Series 1. History. – 2003. – Vol. 2 (16). – pp. 157-159.

8. Chernova, E.G. Functionality of dialogical interaction / E.G. Chernova // Meaning, values, norms in the being of man, society, state. All-Russian scientific conference. – Chelyabinsk, 2011. – pp. 245-249.

9. Shchedrovitsky, G.P. Synthesis of knowledge: problems and methods / G.P. Shchedrovitsky // Towards a theory of scientific knowledge. – Moscow: Science, 1984. – pp. 68-107.

10. Einstein, A. The Evolution of physics / A. Einstein // Coll. scientific. works: in 4 v. Vol. 4. – Moscow: Progress, 1967. – 621 p.

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TO THE QUESTION OF DETERMINING THE ACTUAL OPERATING TIME OF THE INTERNAL COMBUSTION ENGINES

The relevance of the studied problem consists in need to determine the actual technical condition of the internal combustion engines for planning maintenance schedules.

The purpose of article consists in assessment of the reliability of existing methods of definition of an operating time of the internal combustion engines by mileage and engine hours.

The method of research is the natural experiment made by means of the adapter for the diagnostic socket, the smartphone and the express software and also the further analysis of data at the table Excel environment which made it possible to clearly demonstrate the inefficiency of existing methods for determining the operating hours of the internal combustion engines.

The results of the experiment clearly show that the engine's running time in kilometers of the car's mileage is quite weakly related to the number of revolutions of the crankshaft and is in no way connected with the load on the engine. The operating time in a moto-hours also does not reflect the load regimes and wear rates of the parts. This shows the imperfection of the existing methods for assessing the technical state of the internal combustion engines by mileage and a moto-hours.

The conclusion of the article is proposed the method for solving the problem of determining the actual technical state of the internal combustion engine and the intensity of its wear, based on taking into account the crankshaft revolutions and the load on the engine at each revolution (the stroke, the angle of rotation of the crankshaft). This method will allow to more reliably determine the degree of engine wear, adjust the frequency of maintenance, evaluate the professionalism of drivers.

Keywords: internal combustion engine, operating time, resource, monitoring, diagnostics.

References

1. Abakumov, G.V. Correction of modes of maintenance of cars during operation in variable conditions / G.V. Abakumov, V.G. Logachev, A.N. Makarova // Scientific and Technical Herald of the Volga Region. – 2014. – Vol. 3. – pp. 54-57.

2. Vasiliev, S.I. Methodology for predicting the effectiveness of trench excavators for the development of frozen soils: the author's abstract of the dissertation.... can. of Technical Sciences: 05.05.04 / Vasiliev Sergey Ivanovich. – St. Petersburg, 2014. – 314 p.

3. Verhorubov, V.V. On the application of the concept of «motor hour» in estimating fuel consumption and adjusting the periodicity of vehicle maintenance / V.V. Verkhorubov // Proceedings of the conference: coll. of articles. – Kursk, 2017. – pp. 72-74.

4. Vladimirov, I. Motor hour are more indicative than kilometers / I. Vladimirov // Klaxon. - 2007. - Vol. 8. - 5 p.

5. Gotz, A.N. Simulation of loads on parts of a piston engine on unsteady conditions / A. N. Gotz, V.V. Morozov, S.N. Sysoev// Modern problems of science and education. -2012. -Vol. 4. -8 p.

6. Kuznetsov, E.S. Textbook for high schools. 4 th ed., revised and enlarged edition / E.S. Kuznetsov, A.P. Boldin, V.M. Vlasov. – Moscow: Science, 2001. – 535 p.

7. Makarova, A.N. Technique of operative correction of specifications of periodicity of technical service taking into account actual conditions of operation of cars: the author's abstract of the diss. ... can. of Technical Sciences: 05.22.10 / Makarova Anna Nikolaevna. – Orenburg, 2016. – 16 p.

8. Nemkov, M.V. Correction of standards for the technical operation of special vehicles, taking into account the mode of operation: author's abstract. dis. ... can. of Technical Sciences: 05.22.10 / Nemkov Mikhail Vasilyevich. – Tyumen, 2002. – 120 p.

9. Protasov, S. Advice on preventive maintenance of special equipment / S. Protasov // Funds. – 2011. – Vol. 1. – p. 7-10.

10. Slitnikov, K.S. Justification of the periodicity of preventive repairs of automobile engine in order to reduce operating costs: author's abstract. dis. ... can. of Technical Sciences: 05.22.10 / Slitnikov Konstantin Leonidov-ich. – Volgograd, 2013. – 145 p.

11. Shabanov, A. Engine wear [Electronic resource] / A. Shabanov. – Access: //wiki.zr.ru – (reference date: 02.02.2018).

12. Android OBD-II [Electronic resource] / Reader application that uses pure OBD-II PID's Java API. – Access: // github.com/pires/android-obd-reader – (reference date: 02.02.2018).