To cite this paper:

Ilyukhin A., Ilyukhina S. (2022) Insurance market economics: key indicators' modeling. *Human Progress.* 8. (3): 6. URL: http://progress-human.com/ images/2022/Tom8_3/Ilukhin.pdf. DOI 10.34709/IM.183.6. EDN IJXIMA.

INSURANCE MARKET ECONOMICS: KEY INDICATORS' MODELING

Alexey Ilyukhin

Cand. Sc. (Econ.), Associate Professor of Economic Theory and Corporate Governance Department in Ural State University of Economics

Yekaterinburg, Russia

Svetlana Ilyukhina

Cand. Sc. (Econ.), Associate Professor of Information Technology and Statistics Department in Ural State University of Economics

Yekaterinburg, Russia

Abstract. The insurance market protects the property interests of economic agents and is a factor of social stability. The balanced insurance market development, based on modeling and forecasting, ensures the sustainable economy development. To optimize the insurance market economy, an attempt has been made to develop its main indicators forecasting models on the example of the large industrial region's insurance market (Sverdlovsk region). The hypothesis of the relationship between personal insurance market key indicators and the employee' wages is investigated. The purpose of the study is to develop and substantiate the main trends forecast in the insurance development in a large industrial region, based on modeling its key indicators. The scientific novelty of the study is to predict the insurance development in a large industrial region using the variation coefficient for hypothesis' statistical testing in determining the model stability. The object of the study is the insurance market economics of the Sverdlovsk region, most of the patterns of the such a market evolution are the national insurance market characteristic. To determine the insurance market development trends, the authors have developed medium-term insurance market forecasts of the Sverdlovsk region for 2025. Forecasting the economic processes in the insurance market is based on the construction and evaluation of the developed statistical model based on the initial time series for 2005-2021. The presented statistical models can be used by regional government bodies and insurance companies. The proposed models allow to develop a new strategy for the insurance market progress in the interests of not only insurance companies, but also potential policyholders. In further research, it is necessary to study banking statistics and labor statistics for a more complete and in-depth insurance market key indicators' analysis.

Keywords: insurance market economics; insurance market; insurance market key indicators; modeling of economic indicators; insurance market forecasting.

JEL codes: G22; C19.

References

1. Ghosh, A. (2013) Does life insurance activity promote economic development in India: an empirical analysis // Journal of Asia Business Studies. Vol. 7. No. 1. P.: 31-43. DOI 10.1108/15587891311301007.
2. Silin, Ya.P.; Animitsa, E.G. (2020) Evolution of the Regional Economy Paradigm // Journal of New Economy. Vol. 21. No. 1. P.: 5-28. DOI: 10.29141/2658-5081-2020-21-1-1.
3. Silin, Ya.P.; Animitsa, E.G.; Novikova, N.V. (2017) Regional aspects of new industrialization // Economics of the region. Vol. 13. No. 3. P.: 684-696. DOI: 10.17059/2017-3-4.
4. Silin, Ya.P.; Animitsa, E. G.; Novikova, N.V. (2016) "New normality" in the Russian economy: regional specifics // Economics of the region. Vol. 12. No. 3. P.: 714-725. DOI: 10.17059/2016-3-9.
5. Grinberg, R.S.; Komolov, O.O. (2020) Import of institutions: theoretical aspect and practical experience // Economic and social changes: facts, trends, forecast. 13(3). P.: 17-28.
6. Lvov, D.S.; Glazyev, S.Yu. (2017) Theoretical and applied aspects of STP management // Economic and mathematical methods. Vol. 5.
7. Ilyukhin, A.A.; Ponomareva, S.I.; Ilyukhina, S.V. (2021) Economic growth and financial development: macroeconomic aspect // Journal of New Economy. Vol. 22. No. 1. P.: 53-70. DOI: 10.29141/2658-5081-2021-22-1-3.
8. Spletukhov, Yu.A.; Dyuzhikov, E.F. (2014) Insurance of bank deposits in the states - participants of the single economic space. Insurance business. 29 (215).
9. Yurgens, I.Yu.; Nichiporuk, N. (2017) Regulation of insurance activities in Russia // Business. Society. Power. No. 1 (26). P.: 99-113.
10. Zubets, A.N. (2015) Consumer assessment of insurers based on the results of 2014 // Finance. No. 3. P.: 57-58.
11. Eisen, R.; Eckles, D.L. (2011) Insurance economics. Springer Berlin.
12. Borch, K. H.; Sandmo, A.; Aase, K.K. (2014) Economics of insurance. Elsevier.
13. Jarrow, R.A. (2021) The economics of insurance: A derivatives-based approach // Annual Review of Financial Economics. Vol. 13. P.: 79-110.

14. Ilyukhin, A.A.; Ponomareva, S.I.; Ilyukhina, S.V. (2011) Social infrastructure and labor resources of rural areas // Economics of the region. 4 (28). P.: 249-253.
15. Larin, A.V.; Maksimov, A.G.; Chernova, D.V. (2016) Elasticity of labor supply with respect to wages in Russia // Applied Econometrics. Vol. 41. P.: 47-61.
16. Albouy, F.X.; Blagoutine, D. (2001) Insurance and transition economics: the insurance market in Russia // The Geneva Papers on Risk and Insurance. Issues and practices. Vol. 26. No. 3. P.: 467-479.
17. Bollinger, D. (2005) Bollinger on Bollinger bands. IK Analytics Moscow. 219 p.

Contact

Ilyukhin Alexey
Ural State University of Economics
62/45, 8 March str., 620144, Yekaterinburg, Russia
iluhiaa@usue.ru

Ilyukhina Svetlana
Ural State University of Economics
62/45, 8 March str., 620144, Yekaterinburg, Russia
iluhiaa@usue.ru