Internal control system in enterprise management: Analysis and interaction matrices

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2018 International Strategic Management Association. All Rights Reserved. This study is aimed at the development of a guideline for analysis of the economic activity of an enterprise to control and ensure the interaction of tasks and functions of management in the current and strategic aspects in the conditions of innovative development. The proprietary methodology for enterprise management control system formation is developed. The concept of matrices of analysis and interaction between the functions of the enterprise management is introduced. The matrix of operational control and management, the matrix of strategic control and management, the matrix of integrated control and management are considered by the authors. The concept of enterprise management control is considered herein. The objectives of the management control system in the modern economy are also described. The key role of control in the implementation of the current and strategic objectives of the enterprise management is substantiated. The proposals are formulated to improve the control function at the enterprise with the help of new information technologies. Based on the proprietary methodology of matrix analysis and interaction of objectives and functions of the enterprise management system, the algorithm for the formation of a system of integrated flexible internal control is developed.

Keywords

Control, Integrated flexible internal control, Internal control system, Management, Strategic control, Strategic control matrix

References

- [1] Akhmetshin, E.M., Vasilev, V.L., Mironov, D.S., Yumashev, A.V., Puryaev, A.S., Lvov, V.V. 2018. Innovation process and control function in management. European Research Studies Journal, 21(1), 663-674.
- [2] Bondarenko, G.T., Isaeva, A.E., Orekhov, S.A., Soltakhanov, U.A. 2017. Optimization of the Company Strategic Management System in the Context of Economic Instability. European Research Studies Journal, 20(2B), 3-24.
- [3] Gapsalamov, A. R., Vasilyev, V. L., & Ustyuzhyna, O. N. (2017). Planning of regional personnel policy in the modern economic paradigm. Astra Salvensis, 2017, 379-384.
- [4] Goloshchapova, L.V., Smolentsev, V.M., Korelskiy, D.S., Rudenko, M.N., Sergodeeva, E.A. 2017. Theoretical and methodological basis of organization of the internal control system of the industrial enterprise. International Journal of Applied Business and Economic Research, 15(12), 261-271.
- [5] Grynko, T., Gviniashvili, T. 2017. Organisational and economic mechanism of business entities' innovative development management. Economic Annals-XXI, 165(5-6), 80-83.
- [6] Iorga, D., Scarlat, C. 2014. Matrix-type model to control the business processes. UPB Scientific Bulletin, Series D: Mechanical Engineering, 76(1), 243-256.

- [7] Ivanova, B.O., Romanova, F.T., Kostoglodova, D.E and Romanov, G.D. 2017. Strategic Directions of the Country's Ensuring Financial Security. European Research Studies Journal, 20(3B), 461-468.
- [8] Jawab, F., Arif, J. 2015. Risk matrix model applied to the outsourcing of logistics' activities. Journal of Industrial Engineering and Management, 8(4), 1179-1194.
- [9] Kokodey, T. 2013. A three-dimensional matrix model for determining the optimal strategic choice for a company. Periodica Polytechnica Social and Management Sciences, 21(2), 59-65.
- [10] Korableva, O.N., Kalimullina, O.V. 2016. Strategic approach to the optimization of organization based on BSC-SWOT matrix. Paper presented at the 2016 IEEE International Conference on Knowledge Engineering and Applications, ICKEA 2016, 212-215.
- [11] Korableva, O., Kalimullina, O., Kurbanova, E. 2017a. Building the monitoring systems for complex distributed systems: Problems & solutions. Paper presented at the ICEIS 2017 Proceedings of the 19th International Conference on Enterprise Information Systems, 2, 221-228.
- [12] Korableva, O.N., Razumova, I.A., Kalimullina, O.V. 2017b. Research of innovation cycles and the peculiarities associated with the innovations life cycle stages. Paper presented at the Proceedings of the 29th International Business Information Management Association Conference Education Excellence and Innovation Management through Vision 2020: From Regional Development Sustainability to Global Economic Growth, 1853-1862.
- [13] Korableva, O.N., Kalimullina, O.V., Mityakova, V.N. 2018. Innovation activity data processing and aggregation based on ontological modelling. Paper presented at the 2018 4th International Conference on Information Management, ICIM 2018, 1-4.
- [14] Kryvoviaziuk, I. 2013. Implementation of matrix approach to management of enterprise's logistic development based on a concept of "demand-driven techniques". Economic Annals-XXI, 9-10(1), 60-64.
- [15] Kurbanova, E., Korableva, O., Kalimullina, O. 2018. Enhancing the effectiveness of asset management through development of license management system on the basis of SCCM 2012 program by microsoft company. Paper presented at the ICEIS 2018 Proceedings of the 20th International Conference on Enterprise Information Systems, 2, 171-178.
- [16] Ling, V. V., & Yumashev, A. V. (2018). Estimation of worker encouragement system at industrial enterprise. Espacios, 39(28)
- [17] Lenkova, O.V., Permyakov, A.S., Yakunina, O.G., Vechkasova, M.V. 2017. Problems and prospects of innovative development of petrochemical enterprises. International Journal of Energy Economics and Policy, 7(3), 321-325.
- [18] Martyshenko, N.S. 2016. Optimization and management of quality of life in the region, using the example of the Primorye territory (Russia). Journal of Advanced Research in Law and Economics, 7(8), 2121-2131. doi:10.14505/jarle.v7.8(22).23
- [19] Montaño-Ardila, V., Combita-Niño, H., de-La-Hoz-Franco, E. 2017. Alignment of cobit 5 and coso IC-IF to define controls based on good practices IT in compliance with the sarbanes-oxley act. [Alineación de Cobit 5 Y Coso IC-IF para definición de controles basados en Buenas Practicas TI en cumplimiento de la Ley Sarbanes-Oxley] Espacios, 38(23)
- [20] Mullakhmetov, K.S., Sadriev, R.D., Akhmetshin, E.M. 2018. Corporate culture in management systems. European Research Studies Journal, 21(1), 519-528.
- [21] Prodanova, N.A., Smolentsev, V.M., Norkina, A.N., Shukshina, Y.A., Polyanskaya, O.A. 2017. Formation of system of internal control and features its functioning in the innovative development of industrial enterprises. International Journal of Applied Business and Economic Research, 15(13), 179-189.
- [22] Rahim, S.A.A., Nawawi, A., Salin, A.S.A.P. 2017. Internal control weaknesses in a cooperative body: Malaysian experience. International Journal of Management Practice, 10(2), 131-151.
- [23] Vasilev, V. L., Tuktarova, E. M., & Akhmetshin, E. M. (2013). A balanced scorecard and economic security of companies. World Applied Sciences Journal, 27(13 A), 424-427. doi:10.5829/idosi.wasj.2013.27.elelc.87
- [24] Vasilev, V. L., Sazanov, O. V., & Ustyuzhina, O. N. (2017). Innovation and strategic development in the firms. International Journal of Economic Perspectives, 11(4), 620-625.
- [25] Wu, B. 2016. Internal control evaluation system of manufacturing enterprises. Revista Tecnica De La Facultad De Ingenieria Universidad Del Zulia, 39(2), 358-363.