Kompetentnost' / Competency (Russia) 6/2021
ISSN 1993-8780. DOI: 10.24412/1993-8780-2021-6-35-44

Conceptual Foundations for the Formation of the Project Portfolio of the Head Enterprise

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Citation: Volochienko V.A., Sorokina L.B. Conceptual Foundations for the Formation of the Project Portfolio of the Head Enterprise, *Kompetentnost' / Competency (Russia)*, 2021, no. 6, pp. 35–44. DOI: 10.24412/1993-8780-2021-6-35-44

key words

production organization, project portfolio, recognition system, classification, modeling

In modern conditions, increasing the accuracy of the formation of the portfolio of projects of the main enterprise for the production of high-tech products is of particular relevance.
We have reviewed the existing method of building a project portfolio, its advantages and disadvantages are considered. The classifications of the initial data of the portfolio formation and the types of problem situations that arise between the subjects of its formation are formed. The classification of problem situations is proposed to be carried out on the basis of a set of management decisions taken to resolve them. The solution of specific problem situations that arise during the formation of a project portfolio is recommended on the basis of the use of specialized recognition systems. Recommendations for creating a model have been developed.
In conclusions. The study has a practical significance, which is expressed by a significant reduction in the uncertainty in the formation of the portfolio, increasing the accuracy of its formation, minimizing the time for conflict resolution and contract conclusion, increasing the productivity and efficiency of the head enterprise.

References

1. Džamonja M. Measure Recognition Problem; http: arXiv:math/0608336v1 [math.LO]. 14.08.2006. DOI: 10.1098/rsta.2006.1896.
2. Haddad M. F. C. Sphere-sphere intersection for investment portfolio diversification — A new data-driven cluster analysis, *MethodsX*, 2019, vol. 6, pp. 1261–1278. DOI: https://doi.org/10.1016/j.mex.2019.05.025.
3. Katayama H., Murata K., Lee D.-J. On Advanced Topics for Reinforcing Leanized Management, *Procedia Manufacturing*, 2019, vol. 39, pp. 599–608.
4. Cinelli M., Kadzinski M., Gonzalez M. How to support the application of multiple criteria decision analysis? Let us start with a comprehensive taxonomy, *Omega*, 2020, vol. 96, pp. 1–22. DOI: https://doi.org/10.1016/j.omega.2020.102261.
5. Sorokina L.B. Development of technical and economic characteristics of company project portfolio, Int. Conf. for Graduate Students and Young Researchers Science, Engineering and Business, Moscow, *BMSTU Publishing House*, 2019, pp. 78–85.
6. Steinle C., Bruch H., Lawa D. Projektmanagement, *FAZ Verlagsbereich Wirtschaftsbücher*, 1995, pp. 136–143.
7. Temmes A., Välikangas L., *Int. J. of Innovation Studies*, 2019, vol. 3, pp. 40–53. DOI: https://doi.org/10.1016/j.ijis.2019.06.004.
8. Volochienko V.A. Organization of production process management of machine-building enterprises on the basis of recognition of problem situations (Theory, methodology, methods of implementation), Moscow, *SEI HPE MSUF*, 2007, 216 P.
9. Volochienko V.A. Management of modern industrial production on the basis of recognition of problem situations. Dissertation for the degree of Dr. of Ec. Sc., Moscow, *Central Economic and Mathematical Institute of the Russian Academy of Sciences*, 2008, pp. 202–215.
10. Volochienko V.A., Sorokina L.B. Improving the relationships between the subjects of forming a head enterprise portfolio project, *Computational nanotechnology*, 2020, vol. 7, no. 1, pp. 84–91 (In Russ.). DOI: 10.33693/2313-223X-2020-7-1-84-91.
11. Voropaev V.I., Gel`rud Ya.D. Mathematical models of management for the manager and the project management team (part 1), *Project and Program Management*, 2014, no. 1(37), pp. 62–71 (In Russ.).
12. Gubko M.V. Mathematical models of the formation of rational organizational hierarchies, *Automation and Remote Control*, 2008, no. 9, pp. 114–139.
13. Mizyun V.A. Intellectual management of production systems and processes: principles of organization and tools, Tol`yatti, *SSC RAS*, 2012, 214 P. (In Russ.)
14. Mistrov L.E., Pavlov V.A. Ensuring the conflict sustainability of the information systems on the basis of technical means, *Proceedings of the Voronezh State University of Engineering Technologies*, 2016, no. 1, pp. 83–88. DOI: 10.20914/ 2310-1202-2016-1-83-88 (In Russ.).
15. Mishin V.M. Research of control systems: Textbook for universities, Moscow, *UNITY-DANA*, 2003, 527 P.
16. Popov V.N., Kas`yanov V.S., Savchenko I.P. System analysis in management, Moscow, *KNORUS*, 2019, 298 P. (In Russ.)