

# Directions for Improving Business Processes' Efficiency in the Petrochemical Industry

E.A. Dolonina<sup>1</sup>, FSBEI HE Kazan National Research Technological University, elena.dln@mail.ru

<sup>1</sup> Candidate of Logistics and Management Department, Kazan, Republic of Tatarstan, Russia

**Citation:** Dolonina E.A. Directions for Improving Business Processes' Efficiency in the Petrochemical Industry, *Kompetentnost' / Competency (Russia)*, 2021, no. 5, pp. 28–31.  
DOI: 10.24412/1993-8780-2021-5-28-31

## key words

digitalization, Industry 4.0, business process management (BPM), key performance indicators

In the given article, I have studied the issues of digitalization, which occupy one of the key positions in the field of improving the efficiency of industrial enterprises. Successful digital transformation of the industry depends on the modernization of business models. The main stages of the transformation of business processes in the context of Industry 4.0 are identified. I have proposed various measures, the implementation of which will ensure the effectiveness of business process management. It is revealed, that one of the main issues of evaluating the effectiveness of a business process is its measurement, which requires the use of various key performance indicators. They, in turn, should be based on certain principles.

## References

1. Tupa J., Steiner F. Industry 4.0 and business process management, *Tehnički Glasnik*, 2019, vol. 13(4), pp. 349–355.
2. Lola I.S., Bakeev M.B. Digital transformation in manufacturing: drivers, barriers, and benefits, *Science, Technology and Innovation. Higher School of Economics*, 2020, no. WP BRP 107/STI/2020.
3. Nissen V., Lezina T., Saltan A. The Role of IT-Management in the Digital Transformation of Russian Companies, *Foresight and STI Governance*, 2018, vol. 12(3), pp. 53–61.
4. Koretskiy A.S. Printsipy formirovaniya tsifrovoy ekosistemy upravleniya protsessami na osnove biznes-modeli [Principles of forming a digital ecosystem of process management based on a business model], *Gosudarstvennoe upravlenie. Elektronnyy vestnik*, 2021, no. 84, pp. 221–240.
5. Shinkevich A.I., Kudryavtseva S.S., Shinkevich M.V. Tendentsii biznes-resheniy v razvitiy intellektual'nogo proizvodstva [Trends of business solutions in the development of intellectual production], *Vestnik universiteta*, 2020, vol. 8, pp. 41–47.
6. Kudryavtseva S.S., Galimulina F.F., Zaraychenko I.A., Barsegyan N.V. Modeling the management system of open innovation in the transition to e-economy, *Modern Journal of Language Teaching Methods*, 2018, vol. 8, no. 10, pp. 163–171.
7. Kudryavtseva S.S. Professional'noe obrazovanie v tekhnicheskikh vuzakh na osnove modeli universiteta 3.0 — podkhod tsifrovoy ekonomiki [Professional education in technical universities on the basis of the university model 3.0 — approach of digital economy], *Obrazovanie i problemy razvitiya obshchestva*, 2018, no. 1(5), pp. 53–63.
8. Orekhova S.V. Promyshlennyye predpriyatiya: elektronnyaya vs traditsionnaya biznes-model' [Industrial enterprise: electronic vs the traditional business model], *Terra economicus*, 2018, vol. 16, no. 4, pp. 77–94.
9. Dolonina E.A. Analiticheskoe issledovanie transformatsii biznes-protsessov promyshlennogo predpriyatiya v usloviyakh tsifrovizatsii [Analytical study of the transformation of the business processes of industrial enterprise in conditions of digitalization], *Vestnik Belgorodskogo universiteta kooperatsii, ekonomiki i prava*, 2020, no. 6(85), pp. 189–197.
10. Hammer M., Champy J. Business process reengineering, London, *Nicholas Brealey*, 1993.

## Как подготовить рекламу для журнала «Компетентность»



Рекламные статьи редакция оформляет в соответствии с макетом, принятым в журнале для статей этой категории.  
**Допустимые форматы текстовых файлов:** TXT, RTF, DOC

**Допустимые форматы графических файлов и готовых модулей:** логотипы, графики, диаграммы, схемы — AI 8-й версии (EPS, текст переведен в кривые); фотографии — TIFF, JPEG (Grayscale, RGB, CMYK) с разрешением 300 dpi