Abstract

Organizations have realized the importance of the Logistics channel in a Supply Chain as it plays a critical role in gaining the competitive advantage for their businesses, especially in the current highly competitive and challenging business environment. And, Warehouse Management Systems (WMS) is being one of the important and critical IT systems that helps the Logistics business to be visible and transparent for all the stakeholders in a business, thus gaining the advantage. As it evolves the technological developments in the market in the last decade or so, it has huge impact on the IT systems and WMS has no exception to it. Logistics businesses have been adopting these digital technologies to cope up with the technological advancements which helps to meet the customer expectations and requirements efficiently and thus help to provide the better customer service. This research article details out the digital technological transformation that has happened in the past decade in the Logistics business, in WMS implementations in particular, by conducting a case study in a leading Logistics and Supply Chain company.
References

1. MIT Center for Digital Business and Capgemini Consulting (2011). DIGITAL TRANSFORMATION: A ROADMAP FOR BILLION-DOLLAR ORGANIZATIONS.
2. WEF (2016), Digital Transformation of Industries: Logistics Industry [White paper]. World Economic Forum & Accenture.
3. PwC (2016), Industry 4.0. How digitalization makes the supply chain more efficient, agile, and more customer-focused, PwC. Retrieved Sep 15, 2018 from https://www.strategyand.pwc.com/report/digitization-more-efficient
4. Marzenna Cichosz, Digitalization and Competitiveness in the Logistics Service Industry, “e-mentor” 2018, No 5(77), pp. 73–82, http://dx.doi.org/10.15219/em77.1392.
5. Prockl, G., Pflaum, A., & Kotzab, H. (2012), 3PL factories or lernstatteis? Value-creation models for 3PL service providers. International Journal of Physical Distribution & Logistics Management, 42(6), 544–561.
6. Brynjolfsson, E., & McAfee, A. (2012). Race against the machine: How the digital revolution is accelerating innovation, driving productivity, and irreversibly transforming employment and the economy. Lexington, MA: Digital Frontier Press.
7. Delfmann, W., Albers, S., & Gehring, M. (2002). The impact of electronic commerce on logistics service providers. International Journal of Physical Distribution & Logistics Management, 32(3), 203–222.
8. European Commission (2016). Digital transformation, Retrieved Sep 15, 2018 from http://ec.europa.eu/growth/ industry/digital-transformation_en
9. Kayikci, Y. (2018), Sustainability impact of digitization in logistics. Procedia Manufacturing, 21, 782–789.
10. Osterwalder, A., & Pigneur, Y. (2010), Business model generation: a handbook for visionaries, game changers, and challengers. New Jersey: John Wiley & Sons.
11. Paprocki W. (2017) How Transport and Logistics Operators Can Implement the Solutions of “Industry 4.0”

Index Terms

Computer Science
Information Systems

Keywords

Warehouse Management System, WMS, Digital Transformation and Digital Technologies.