

REFERENCES

- A Majeed, M. , & Rupasinghe, T. . (2017). Internet of Things (IoT) Embedded Future Supply Chains for Industry 4.0: An Assessment from an ERP-based Fashion Apparel and Footwear Industry. *International Journal of Supply Chain Management*, 25-40.
- Aggarwal, K., Garg, S., & Budhaulia, P. (2020). TRANSFORMING MANUFACTURING PROCESSES WITH THE HELP OF AI. *International Journal of Mechanical Engineering and Technology (IJMET)*, 9-20.
- Angeles, R. (2005). RFID technologies: Supply-Chain applications and implementation issues. *Information Systems Management*, 51-65.
- Banerjee, A. (2018). Blockchain Technology: Supply Chain Insights from ERP. *Advances in Computers*, 1-30.
- Baron, R., & Kenny, D. (1986). The Moderator-Mediator Variable Distinction in Social Psychological Research. Conceptual, Strategic, and Statistical Considerations. *Journal of Personality and Social Psychology*, 1173-1182.
- Barsemoi, H., Mwangagi, P., & Ode, B. (2014). Factors influencing procurement performance in private sector in Kenya. *International Journal of Innovation and Applied Studies*, 632-641.
- Beheshti, H., Oghazi, P., Mostaghel, R., & Hultman, M. (2014). Supply chain integration and firm performance: an empirical study of Swedish manufacturing firms. *Competitiveness Review Vol. 24 No. 1, 2014 pp. 20-31*, 20-31.
- Bermana, J., & Smyth, R. (2015). Conceptual frameworks in the doctoral research process: a pedagogical model. *Innovations in Education and Teaching International*, 2015, 125-136.
- Cedcraftscodes. (2019, January 29). *Connecting RFID Scanner to PHP using NodeMcu Wifi Module*. Retrieved from Dev Craze: <https://devcraze.com/tutorials/connecting-rfid-scanner-to-php-using-nodemcu-wifi-module/>
- Choy, K., Chowa, K. H., Moon , K. L., Zeng, X., Lau, H., Chan, F., & Ho, G. (2009). A RFID-case-based sample management system for fashion product development. *Engineering Applications of Artificial Intelligence* 22, 882-896.

- Chuang, M.-L., & Shaw, W. (2007). RFID: Integration Stages in Supply Chain Management. *80 IEEE ENGINEERING MANAGEMENT REVIEW*, VOL. 35, NO. 2, SECOND QUARTER 2007, 80-87.
- Coldwell, D., & Herbst, F. (2004). *Business Research*. Cape Town: JUTA Academic.
- Costa, W. A., Souza, F. M., & Júnior, J. A. (2013). How the Warehouse Management System (WMS) can contribute to the management of a Distribution Center (DC) in a furniture retail enterprise. *Journal of Chemical Information and Modeling*, 1689-1699.
- D'Souza, P., Guo, M., Wang, D., & Lee, I. (2013). Real-time Inventory Management with RFIDash Dept. *Dept. of CIS - Senior Design 2012-2013*, 1-10.
- Dolgui, A., & Proth, J. -M. (2008). RFID TECHNOLOGY IN SUPPLY CHAIN MANAGEMENT: STATE OF THE ART AND PERSPECTIVES. In A. Dolgui , & J.-M. Proth , *17th IFAC World Congress (IFAC'08)* (pp. 4464-4475). Seoul: IFAC Proceedings Volumes.
- Domdouzis , K., Kumar , B., & Anumba, C. (2007). Radio-Frequency Identification (RFID) applications: A brief introduction. *Advanced Engineering Informatics* 21, 350-355.
- DPL. (2021, November 11). *Who We Are*. Retrieved from DPL: <https://www.dplgroup.com/about-us/who-we-are/>
- Dunham, A. (2024, February 5). *Procurement KPIs: 22 Essential Metrics for Tracking and Visualizing Procurement Performance*. Retrieved from pipefy procure-to-pay : <https://www.pipefy.com/blog/procurement-kpis/>
- Easterby-Smith, M., Thorpe, R., & Jackson, P. (2012). *MANAGEMENT RESEARCH*. Singapore: SAGE Publications Ltd.
- EDB. (2021, November 11). *INDUSTRIAL & SURGICAL GLOVES OF RUBBER*. Retrieved from Sri Lanka Export Development Board: <https://www.srilankabusiness.com/exporters-directory/rubber-exporters-in-sri-lanka/finished-rubber-products-exporters/industrial-surgical-gloves-suppliers/>
- EDB. (2021, November 11). *RUBBER GLOVES FROM SRI LANKA*. Retrieved from Sri Lanka Export Development Board: <https://www.srilankabusiness.com/rubber/rubber-glove-industry-sri-lanka.html>
- ElectronicWings. (2023, December 12). *Introduction to NodeMCU*. Retrieved from ElectronicWings: <https://www.electronicwings.com/nodemcu/introduction-to-nodemcu>

- Figueroa, S., Añorga, J., & Arrizabalaga, S. (2019). An Attribute-Based Access Control Model in RFID Systems Based on Blockchain Decentralized Applications for Healthcare Environments. *Computers 2019*, 1-19.
- G2. (2023, January 21). *Best ERP Systems*. Retrieved from G2: <https://www.g2.com/categories/erp-systems>
- Gaukler , G., & Seifert, R. (2007). Applications of RFID in Supply Chains. *Applications of RFID in Supply Chains*, 29-48.
- Gergely, S. (2024, February 14). *Essential KPIs for Measuring Procurement Performance*. Retrieved from Veridion: <https://veridion.com/blog-posts/procurement-performance-kpis/>
- Goyal, S., Aloysius, J., & Hardgrave, B. (2009). Using RFID to Improve Inventory Accuracy. *15th Americas Conference on Information Systems 2009, AMCIS 2009*, 4316-4322.
- Gruen, T., & Corsten, D. (2008). *A Comprehensive Guide To Retail Out-of-Stock Reduction In the Fast-Moving Consumer Goods Industry*. Colorado Springs: GMA, FMI, NACDS, P&G or the University of Colorado at Colorado Springs.
- Halawa, F., Daoud, H., Lee, I., Li, Y., Yoon, S. W., & Chung, S. H. (2018). Introduction of a Real Time Location System to Enhance the Warehouse Safety and Operational Efficiency. *International Journal of Production Economics*, 1-42.
- Hamdy, W., Mostafa, N., & Elawady, H. (2018). Towards a Smart Warehouse Management System. *Proceedings of the International Conference on Industrial Engineering and Operations Management*, 2555-2563.
- Hatzithomas, L., Stamelos, I., Fotiadis, T., & Mylonakis, J. (2007). Quality And Effectiveness Of Enterprise Resource Planning – Customer Relationship Management Systems: Implications For Information Systems Marketing Strategies. *The Journal of Applied Business Research – Third Quarter 2007*, 33-52.
- Heese, H. (2007). Inventory Record Inaccuracy, Double Marginalization, and RFID Adoption. *Production and Operations Management*, 542-553.
- Hellstrom, D., & Wiberg, M. (2010). Improving inventory accuracy using RFID technology: a case study. *Assembly Automation*, 345-351.
- Huanga, G., Zhanga, Y., & Jiangb, P. . (2007). RFID-based wireless manufacturing for walking-worker assembly islands with fixed-position layouts. *Robotics and Computer-Integrated Manufacturing 23 (2007)*, 469-477.
- Isaja, M., Soldatos, J., & Gezer, V. (2017). Combining Edge Computing and Blockchains for Flexibility and Performance in Industrial Automation. *The*

Eleventh International Conference on Mobile Ubiquitous Computing, Systems, Services and Technologies, 159-164.

- Jenkins, A. (2023, January 26). *What Is Shrinkage in Inventory?* Retrieved from ORACLE NetSuite:
<https://www.netsuite.com/portal/resource/articles/inventory-management/shrinkage.shtml>
- John W., C. (1994). *Research Design*. Washington: Sage Publications.
- Kakwezi, P., & Nyeko, S. (2019). PROCUREMENT PROCESSES AND PERFORMANCE: EFFICIENCY AND EFFECTIVENESS OF THE PROCUREMENT FUNCTION. *Int Journal of Social Sciences Management and Entrepreneurship* 3(1), 172-182.
- Kang, Y., & Gershwin, S. (2007). Information inaccuracy in inventory systems: stock loss and stockout. *IIE Transactions (Institute of Industrial Engineers)*, 843-859.
- Katrych, T. (2022, October 10). *Procurement KPIs & Metrics: What To Focus on and How To Measure*. Retrieved from PRECORO:
<https://precoro.com/blog/procurement-kpis-metrics/#quality-kpis>
- Kemp, S., Hort, J., & Hollowood, T. (2018). *Descriptive Analysis in Sensory Evaluation*. West Sussex: John Wiley & Sons Ltd.
- Kim, J., Ok, C.-S., Kumara, S., & Yee, S.-T. (2010). A market-based approach for dynamic vehicle deployment planning using radio frequency identification (RFID) information. *Int. J. Production Economics* 128 (2010), 235-247.
- Koyanagi, F. (2023, December 12). *NodeMCU ESP8266: Details and Pinout*. Retrieved from Autodesk Instructables:
<https://www.instructables.com/NodeMCU-ESP8266-Details-and-Pinout/>
- Lee, H., & Billington, C. (1992, April 15). *Managing Supply Chain Inventory: Pitfalls and Opportunities*. Retrieved from MIT Sloan Management Review:
<https://sloanreview.mit.edu/article/managing-supply-chain-inventory-pitfalls-and-opportunities/>
- Li, X., Zhao, X., & Pu, W. (2020). A novel approach to measuring enterprise procurement decision process: an information distance perspective. *Enterprise Information Systems*, 58-82.
- Lin, S., Huang, J., Chen, W., Zhou, W., Xu, J., Liu, Y., & Yao, J. (2021). Intelligent warehouse monitoring based on distributed system and edge computing. *International Journal of Intelligent Robotics and Applications*, 130-142.

- Liu, C., & Chen, L. (2009). Applications of RFID technology for improving production efficiency in an integrated-circuit packaging house. *International Journal of Production Research*, 2203-2216.
- Mashayekhy, Y., Babaei, A., Yuan, X.-M., & Xue, A. (2022). Impact of Internet of Things (IoT) on Inventory Management: A Literature Survey. *Logistics*, 1-19.
- Masudin, I., Kamara, M., Zulfikarijah, F., & Dewi, S. (2018). Impact of Inventory Management and Procurement Practices on Organization's Performance. *Singaporean Journal of Business Economics, and Management Studies (SJBEM)*, 32-39.
- Matičević, G., Čičak, M., & Lovrić, T. (2011). RFID and Supply Chain Management for Manufacturing Digital Enterprise. *Supply Chain Management - New Perspectives*, 517-536.
- Mills-Harris, M. , Soylemezoglu, A., & Saygin, C. . (2005). RFID Data-Based Inventory Management of Time-Sensitive Materials. *0-7803-9252-3*, 2302-2307.
- Modupe, O. T., Oladapo, O. J., Otitoola, A. A., Abiona, O. O., Oyeniran, O. C., Adewusi, A. O., & Komolafe, A. M. (2024). REVIEWING THE TRANSFORMATIONAL IMPACT OF EDGE COMPUTING ON REAL-TIME DATA PROCESSING AND ANALYTICS. *Computer Science & IT Research Journal*, 694-702.
- Morey, R. (1985). Estimating Service Level Impacts from Changes in Cycle Count, Bder Stock, or Corrective Action. *JOURNAL OF OPERATIONS MANAGEMENT* vol. 5, No. 4. August 1985, 411-418.
- Mostafa, N., Hamdy, W., & Elawady, H. (2018). Towards a Smart Warehouse Management System. *Proceedings of the International Conference on Industrial Engineering and Operations Management*, 2555-2563.
- Mukopi, C. M., & Iravo, A. M. (2015). An Analysis of the Effects of Inventory Management on the Performance of the Procurement Function of Sugar Manufacturing Companies in the Western Kenya Sugar Belt. *International Journal of Scientific and Research Publications, Volume 5, Issue 5, May 2015*, 809-822.
- Mutinda, L. N., & Paul, S. N. (2018). Role of Inventory Management Strategies on Procurement Performance in State Corporations in Kenya. *American Based Research Journal*, 39-51.
- Navarro, D. (2022). Learning statistics with R: A tutorial for psychology students and other beginners. *Gastronomía ecuatoriana y turismo local.*, 5-24.
- Nettsträter, A., Geißen, T., Witthaut, M., Ebel, D., & Schoneboom, J. (2015). Logistics Software Systems and Functions: An Overview of ERP, WMS, TMS and SCM

- Systems. *M. ten Hompel et al. (eds.), Cloud Computing for Logistics, Lecture Notes in Logistics*, DOI 10.1007/978-3-319-13404-8_1, 1-11.
- Niederman, F., Mathieu, R., Morley, R., & Kwon, I.-W. (2011). EXAMINING RFID APPLICATIONS IN SUPPLY CHAIN MANAGEMENT. *COMMUNICATIONS OF THE ACM*, 6-6.
- NTT DATA. (2023, February 25). *SAP S/4HANA - Learn All the Details in Our ERP Wiki*. Retrieved from NTT DATA Business Solutions: <https://nttdatasolutions.com/us/sap-s-4hana-erp-wiki/>
- Oboloo. (2023, November 19). *RFID Applications In Procurement: Enhancing Visibility And Tracking*. Retrieved from oboloo Articles: <https://oboloo.com/blog/rfid-applications-in-procurement-enhancing-visibility-and-tracking/>
- Oghazi, P., Rad, F. F., Karlsson, S., & Haftor, D. (2018). RFID and ERP systems in supply chain management. *European Journal of Management and Business Economics*, 171-182.
- Oztaysi, B., Baysan, S., & Akpinar, F. (2009). Radio frequency identification (RFID) in hospitality. *Technovation* 29 (2009), 618-624.
- P, G., Sajiv, G., & L, M. L. (2017). Warehouse Management System using Microprocessor Based Mobile Robotic Approach. *2017 Third International Conference on Science Technology Engineering & Management (ICONSTEM)*, 868-872.
- Pajić, V., Andrejić, M., & Kilibarda, M. (2021). EVALUATION AND SELECTION OF KPI IN PROCUREMENT AND DISTRIBUTION LOGISTICS USING SWARA-QFD APPROACH. *International Journal for Traffic and Transport Engineering (IJTTE)*, 267-29.
- Pallant, J. (2017). *A Step by Step Guide to Data Analysis using SPSS for Windows third edition*. New York: Open University Press.
- Pane, S. F., Awangga, R. M., & Azhari, B. R. (2018). Qualitative evaluation of RFID implementation on warehouse management system. *Telecommunication Computing Electronics and Control* (2018) 16(3) 1303-1308, 1303-1307.
- Parikh, S., Dave, D., Patel, R., & Doshi, N. (2019). Security and Privacy Issues in Cloud, Fog and Edge Computing. *The 3rd International workshop on Recent advances on Internet of Things: Technology and Application Approaches (IoT-T&A 2019)*, 735-739.
- Planet Together. (2021, April 2). *The 5 Functions of Supply Chain Management*. Retrieved from planet together: <https://www.planettogether.com/blog/the-five-functions-of-supply-chain-management>

- Poon, T., Choy, K., Chan, F., Ho, G., Gunasekaran, A., Lau, H., & Chow, H. (2011). A real-time warehouse operations planning system for small batch replenishment problems in production environment. *Expert Systems with Applications* 38 (2011) 8524–8537, 8524-8537.
- Powell, T. (1995). TOTAL QUALITY MANAGEMENT AS COMPETITIVE ADVANTAGE: A REVIEW AND EMPIRICAL STUDY. *Strategic Management Journal*, Vol. 16, 15-37 (1995), 15-37.
- Powell, Z. (2023, December 12). *Node.js vs PHP: A Head-to-Head Comparison*. Retrieved from kinsta: <https://kinsta.com/blog/node-js-vs-php/#:~:text=Close-,Node.,side%20and%20server-side%20development>.
- Qiu, T., Chi, J., Zhou, X., Ning, Z., Atiquzzaman, M., & Wu, D. O. (2020). Edge Computing in Industrial Internet of Things:Architecture, Advances and Challenges. *IEEE Communications Surveys & Tutorials*, 2462-2488.
- Rahim, M. (2008). Identifying Factors Affecting Acceptance of E-procurement Systems: An Initial Qualitative Study at an Australian City Council. *Innovation and Knowledge Management in Business Globalization: Theory and Practice - Proceedings of the 10th International Business Information Management Association Conference*, 219-229.
- Rai, A., Robinson, J., Patnayakuni, R., & Seth, N. (2006). Firm Performance Impact of Digitally Enabled Supply Chain Integration Capabilities. *Digitally Enabled Supply Chain Integration Capabilities*, 226-246.
- Raman, A., DeHoratius, N., & Ton, Z. (2001). Execution: The Missing Link in Retail Operations. *CALIFORNIA MANAGEMENT REVIEW VOL. 43, NO. 3 SPRING 2001*, 136-152.
- Ranaweera, P., Jurcut, A. D., & Liyanage, M. (2021). Survey on Multi-Access Edge Computing Security and Privacy. *IEEE COMMUNICATIONS SURVEYS & TUTORIALS*, 1078-1124.
- Randolph, K., & Myers, L. (2013). *Basic statistics in multivariate analysis*. New York: OUP USA.
- Rathnayake, D. (2021, July 7). *SL rubber gloves cater to 5% of global demand*. Retrieved from theMorning: <https://www.themorning.lk/articles/148177>
- Rejeb, A., Keogh, J., Wamba, S. F., & Treiblmaier, H. (2020). The potentials of augmented reality in supply chain management: a state-of-the-art review. *Management Review Quarterly*, 1-38.
- Robert. (2023, December 10). *Procurement Key Performance Indicators and Metrics*. Retrieved from prokuria: <https://www.prokuria.com/post/procurement-key-performance-indicators-and-metrics>

- S&P Global. (2021, November 11). *Sri Lankan Manufacturers of rubber gloves and Suppliers of rubber gloves*. Retrieved from Panjiva: <https://panjiva.com/Sri-Lankan-Manufacturers-Of/rubber+gloves>
- S. Thomassey, B. (2016). Enterprise resource planning systems for use in apparel supply chains. In B. S. Thomassey, *Information Systems for the Fashion and Apparel Industry* (pp. 235-261). Roubaix: Elsevier Ltd.
- Sanketh, R. (2020, May 26). *An Introduction to RFID*. Retrieved from AUTONOMOUS ROBOTICS: <https://medium.com/autonomous-robotics/an-introduction-to-rfid-dc6228767691#:~:text=The%20RC522%20RFID%20Reader%20module,maximum%20data%20rate%20of%2010Mbps.>
- Saunders, M., Lewis, P., & Thornhill, A. (2009). *Research methods for business students*. New Delhi: Dorling Kindersley.
- Sekaran, U., & Bougie, R. (2013). *Research Methods for Business*. West Sussex: John Wiley & Sons Ltd.
- SendEdge. (2023, November 4). *How Purchasing and Procurement Can Impact the Efficacy of Businesses?* Retrieved from SendEdge: <https://www.spendedge.com/blogs/purchasing-procurement-can-impact-efficacy-businesses/>
- Simchi-Levi, D., Kaminsky, P., & Simchi-Levi, E. (2003). *Design and Managing The Supply Chain Concepts Strategies and Case Studies*. United States of America: Jeffrey J. Shelstad.
- Singh, N., & Adhikari, D. (2023). AI and IoT: A Future Perspective on Inventory Management. *International Journal for Research in Applied Science & Engineering Technology (IJRASET)* , 2753-2757.
- Stratman, J. (2007). Realizing Benefits from Enterprise Resource Planning: Does Strategic Focus Matter? *Production and Operations Management Society*, 203-216.
- Stroeken, J. (2001). Information technology, innovation and supply chain structure. *International Journal of Services, Technology and Management*, 269-288.
- Tajima, M. (2007). Strategic value of RFID in supply chain management. *Journal of Purchasing & Supply Management* 13, 261-273.
- Tarn, J. , Yen, D. , & Beaumont, M. (2002). Exploring the rationales for ERP and SCM integration. *Industrial Management & Data Systems*, 26-34.
- Tavanaa, M., Hajipour, V., & Oveisi, S. (2020). IoT-based enterprise resource planning: Challenges, open issues, applications, architecture, and future research directions. *Internet of Things* 11 (2020) 100262, 1-27.

- Turcu, C., Turcu, C., & Graur, A. (2008). Improvement of Supply Chain Performances Using RFID Technology. *Supply Chain, The Way to Flat Organisation*, 339-354.
- Vickery, S., Jayaram, J., Droge, C., & Calantone, R. (2003). The effects of an integrative supply chain strategy on customer service and financial performance: an analysis of direct versus indirect relationships. *Journal of Operations Management* 21 (2003) 523–539, 523-539.
- Waller, M., Nachtmann, H., & Hunter, J. (2006). Measuring the impact of inaccurate inventory information on a retail outlet. *The International Journal of Logistics Management Vol. 17 No. 3, 2006*, 355-376.
- Wang, W. Y., Pauleen, D., & Taskin, N. (2022). Enterprise systems, emerging technologies, and the data-driven knowledge organisation. *KNOWLEDGE MANAGEMENT RESEARCH & PRACTICE*, 1-13.
- Wilson, J. (2010). *Essentials of Business Research: A Guide to Doing Your Research Project*. SAGE Publications.
- Wullt, J., & Smihily, M. (2010). Radio Frequency Identification (RFID) used by 3% of enterprises in 2009. *E-commerce accounted for 12% of enterprises' turnover in the EU27 in 2008*, 1-4.
- Yao, A., & Carlson, J. (1999). The impact of real-time data communication on inventory management. *Int. J. Production Economics* 59 (1999), 213-219.
- Zhang, Z., Chen, J., & Guo, Q. (2022). Application of Automated Guided Vehicles in Smart Automated Warehouse Systems: A Survey. *Computer Modeling in Engineering & Sciences*, 1530-1563.