

## REFERENCES

- Adelore, S. (2019). *Blockchain Beyond Finance*. Medium.Com. <https://medium.com/advent-tech/blockchain-beyond-finance-6d6552ec6b1a>
- Alicke, K., Davies, A., Leopoldseder, M., & Niemeyer, A. (2017). *Blockchain technology for supply chains—A must or a maybe?* McKinsey&Company. <https://www.mckinsey.com/business-functions/operations/our-insights/blockchain-technology-for-supply-chainsa-must-or-a-maybe>
- Babbie, E. R. (2010). *The Practice of Social Research* (12th ed.). Wadsworth Cengage.
- Bloomenthal, A. (2020). *How operating expenses and cost of goods sold differ?* Investopedia. <https://www.investopedia.com/ask/answers/101314/what-are-differences-between-operating-expenses-and-cost-goods-sold-cogs.asp#:~:text=Operating expenses refer to expenditures,office supplies%2C and legal costs.&text=Both types of expenses are,on a company>
- Boyd, K. (2013). Cost Accounting for Dummies. In *Journal of Petrology* (Vol. 369, Issue 1). John Wiley & Sons, Inc.
- Bozarth, C. C., Handfield, R. B., & Chandiran, P. (2016). *Introduction to Operations and Supply Chain Management* (4th Ed.). Pearson Education.
- Chang, S. E., Chen, Y. C., & Lu, M. F. (2019). Supply chain re-engineering using blockchain technology: A case of smart contract based tracking process. *Technological Forecasting and Social Change*, 144(March), 1–11. <https://doi.org/10.1016/j.techfore.2019.03.015>
- Choi, T. Y., Dooley, K. J., & Rungtusanatham, M. (2001). Supply networks and complex adaptive systems: Control versus emergence. *Journal of Operations Management*, 19(3), 351–366. [https://doi.org/10.1016/S0272-6963\(00\)00068-1](https://doi.org/10.1016/S0272-6963(00)00068-1)
- Chopra, S., & Meindl, P. (2016). *Supply Chain Management: Strategy, Planning, and Operation* (6th Ed.). Pearson Education.
- Christopher, M. (2011). *Logistics & Supply Chain Management* (4th Ed.). Pearson

Education.

- Cipi, E. (2020). *DECENTRALIZATION OF BITCOIN AND HASH RATE (POWER)*. Elite Mining. <https://elitemininginc.com/2020/01/decentralization-of-bitcoin-and-hash-rate-power>
- Cox, A., Sanderson, J., & Watson, G. (2001). Supply chains and power regimes: Toward an analytic framework for managing extended networks of buyer and supplier relationships. *Journal of Supply Chain Management*, 37(1), 28–35. <https://doi.org/10.1111/j.1745-493X.2001.tb00097.x>
- Cresswell, J. W. (2012). *Educational Research: Planning, Conducting, and Evaluating Quantitative and Qualitative Research*. Pearson Education, Inc.
- Crosby, M., Pattanayak, P., Verma, S., & Kalyanaraman, V. (2016). Applied Innovation Review. *Applied Innovation Review*, 2, 5–20.
- Darmawan. (2013). *Metode Penelitian Kuantitatif*. Remaja Rosdakarya.
- Datar, S. M., & Rajan, M. V. (2018). *Horngren's Cost Accounting: A Managerial Emphasis (16th Edition)* (16th ed.). Pearson Education, Inc.
- DHL. (2018). Blockchain in logistics. *DHL Customer Solutions & Innovation*, 1–28. <https://www.logistics.dhl/content/dam/dhl/global/core/documents/pdf/glo-core-blockchain-trend-report.pdf>
- Dughi, P. (2018). *A simple explanation of how blockchain works*. Medium.Com. <https://medium.com/the-mission/a-simple-explanation-on-how-blockchain-works-e52f75da6e9a>
- Elliott, A., & Woodward, W. (2006). *Statistical Analysis Quick Reference Guidebook* (1st ed.). SAGE Publications, Inc. <https://doi.org/10.4135/9781412985949>
- EMURGO Indonesia. (2020). *Supply Chain dan Digital Identity berbasis Blockchain: Lebih signifikan dan berdampak*. Medium.Com. [https://medium.com/@emurgo\\_id/supply-chain-dan-digital-identity-berbasis-blockchain-lebih-signifikan-dan-berdampak-8f6b86b14794](https://medium.com/@emurgo_id/supply-chain-dan-digital-identity-berbasis-blockchain-lebih-signifikan-dan-berdampak-8f6b86b14794)
- EY Ireland. (2019). *Blockchain's profound impact on the automotive industry*. EY. [https://www.ey.com/en\\_ie/blockchain/blockchain-can-have-a-profound-](https://www.ey.com/en_ie/blockchain/blockchain-can-have-a-profound-)

impact-on-the-automotive-industry

- Felicita, G. J. (2019, December 27). Rise of blockchain in Indonesia and the men who made it happen. *E27*. <https://e27.co/rise-of-blockchain-in-indonesia-and-the-men-who-made-it-happen-20191226/>
- Finley, K. (2016). *Here's How IBM Is Planning to Use Its Own Blockchain Software*. Wired.Com. <https://www.wired.com/2016/06/heres-ibm-planning-use-blockchain-software/>
- Fosso Wamba, S., & Guthrie, C. (2019). The impact of blockchain adoption on competitive performance: the mediating role of process and relational innovation. *Logistique & Management*, 28(1), 88–96. <https://doi.org/10.1080/12507970.2019.1679046>
- Fotopoulos, D. (2015). Accounting for the Numberphobic. In *Dk* (Vol. 53, Issue 9). AMACOM.
- Francisco, K., & Swanson, D. (2018). The Supply Chain Has No Clothes: Technology Adoption of Blockchain for Supply Chain Transparency. *Logistics*, 2(1), 2. <https://doi.org/10.3390/logistics2010002>
- Fu, D., Ionescu, C. M., Aghezzaf, E. H., & De Keyser, R. (2014). Decentralized and centralized model predictive control to reduce the bullwhip effect in supply chain management. *Computers and Industrial Engineering*, 73(1), 21–31. <https://doi.org/10.1016/j.cie.2014.04.003>
- Gatteschi, V., Lamberti, F., Demartini, C., Pranteda, C., & Santamaria, V. (2018). To Blockchain or Not to Blockchain: That Is the Question. *IT Professional*, 20(2), 62–74. <https://doi.org/10.1109/MITP.2018.021921652>
- Ghozali, I. (2018). *Aplikasi Analisis Multivariate dengan Program IBM SPSS 25*. Badan Penerbit Universitas Diponegoro.
- Grant, T., Clark, U., Reershemius, G., Pollard, D., Hayes, S., & Plappert, G. (2017). *Quantitative Research Methods for Linguists: A Questions and Answers Approach for Students*. Taylor & Francis.
- Hald, K. S., & Kinra, A. (2019). How the blockchain enables and constrains supply chain performance. *International Journal of Physical Distribution and Logistics Management*, 49(4), 376–397. <https://doi.org/10.1108/IJPDLM-02->

2019-0063

- Hearnshaw, E. J. S., & Wilson, M. M. J. (2013). A complex network approach to supply chain network theory. *International Journal of Operations and Production Management*, 33(4), 442–469. <https://doi.org/10.1108/01443571311307343>
- Heizer, J., Render, B., & Manson, C. (2017). *Operations Management: Sustainability and Supply Chain Management* (12th ed.). Pearson Education.
- IBM. (n.d.). *Home*. LinkedIn. Retrieved August 5, 2020, from <https://www.linkedin.com/company/ibm>
- IBM. (2018). *Form 10-K 2018*. [https://www.ibm.com/investor/att/pdf/IBM\\_2018\\_Annual\\_10K.pdf](https://www.ibm.com/investor/att/pdf/IBM_2018_Annual_10K.pdf)
- IBM. (2019). IBM Annual Report 2019. In *The IBM Annual Report*. [www.ibm.com/annualreport/assets/downloads/IBM\\_Annual\\_Report](http://www.ibm.com/annualreport/assets/downloads/IBM_Annual_Report)
- Indrawati. (2015). *Metode Penelitian Manajemen dan Bisnis, Konvergensi Teknologi Komunikasi dan Bisnis*. PT Refika Aditama.
- Ko, T., Lee, J., & Ryu, D. (2018). Blockchain technology and manufacturing industry: Real-time transparency and cost savings. *Sustainability (Switzerland)*, 10(11), 1–20. <https://doi.org/10.3390/su10114274>
- Krajewski, L. J., Malhotra, M. K., & Ritzman, L. P. (2016). Operations Management: Processes and Supply Chains. In *Operations Management* (11th ed.). Pearson Education, Inc.
- Kshetri, N. (2018). 1 Blockchain's roles in meeting key supply chain management objectives. *International Journal of Information Management*, 39(December 2017), 80–89. <https://doi.org/10.1016/j.ijinfomgt.2017.12.005>
- Laaper, S., Fitzgerald, J., Quasney, E., Yeh, W., & Basir, M. (2017). Using blockchain to drive supply chain innovation. In *Deloitte*. <https://www2.deloitte.com/content/dam/Deloitte/us/Documents/process-and-operations/us-blockchain-to-drive-supply-chain-innovation.pdf>
- Lapinskaitė, I., & Kuckailytė, J. (2014). the Impact of Supply Chain Cost on the Price of the Final Product. *Business, Management and Education*, 12(1), 109–126. <https://doi.org/10.3846/bme.2014.08>

- Laurence, T. (2017). *Blockchain for Dummies*. John Wiley & Sons, Inc.
- Law, A. (2017). *Smart Contracts and their Application in Supply Chain Management*.
- Ma, R. (2020). *How Blockchain Tech Is Solving Problems In The Supply Chain Sector*. Forbes.  
<https://www.forbes.com/sites/forbestechcouncil/2020/01/02/how-blockchain-tech-is-solving-problems-in-the-supply-chain-sector/#58ce8eb567e1>
- Mandal, J., Goswami, A., Wang, J., & Tiwari, M. K. (2020). Optimization of vehicle speed for batches to minimize supply chain cost under uncertain demand. *Information Sciences*, 515, 26–43.  
<https://doi.org/10.1016/j.ins.2019.12.009>
- Marr, B. (2018). *How Blockchain Will Transform The Supply Chain And Logistics Industry*. Forbes. <https://www.forbes.com/sites/bernardmarr/2018/03/23/how-blockchain-will-transform-the-supply-chain-and-logistics-industry/#7824b4595fec>
- Masterclass. (2019). *How to Calculate Operating Cost: Operating Cost Formula*. Masterclass.Com. <https://www.masterclass.com/articles/how-to-calculate-operating-cost>
- Mauri, R. (2017). *Three features of blockchain that help prevent fraud*. IBM Blockchain Blog. <https://www.ibm.com/blogs/blockchain/2017/09/three-features-of-blockchain-that-help-prevent-fraud/>
- Mearian, L. (2019). *What is blockchain? The complete guide*. Computer World. <https://www.computerworld.com/article/3191077/what-is-blockchain-the-complete-guide.html>
- Mettler, M. (2016). Blockchain Technology in Healthcare: The Revolution Starts Here. *2016 IEEE 18th International Conference on E-Health Networking, Applications and Services, Healthcom 2016*, 16–18.
- Miles, C. (2017). *Blockchain security: What keeps your transaction data safe?* IBM Blockchain Blog. <https://www.ibm.com/blogs/blockchain/2017/12/blockchain-security-what-keeps-your-transaction-data-safe/#:~:text=A blockchain%2C as the name,that>

contain records of transactions.&text=The records on a blockchain,as a personal digital signature.

- Mohammed, A., & Wang, Q. (2017). Developing a meat supply chain network design using a multi-objective possibilistic programming approach. *British Food Journal*, *119*(3), 690–706. <https://doi.org/10.1108/BFJ-10-2016-0475>
- Moore, D. S., Notz, W. I., & Fligner, M. A. (2017). *The Basic Practice of Statistics* (8th ed.). W. H. Freeman.
- Morabito, V. (2017). Business innovation through blockchain: The B3 perspective. In *Business Innovation through Blockchain: The B*. <https://doi.org/10.1007/978-3-319-48478-5>
- Murphy, C. B. (2020). *Operating Cost Definition*. Investopedia. <https://www.investopedia.com/terms/o/operating-cost.asp>
- Neuman, W. L. (2014). *Social Research Methods: Qualitative and Quantitative Approaches* (7th ed.). Pearson Education Limited.
- Nugent, T., Upton, D., & Cimpoesu, M. (2016). Improving data transparency in clinical trials using blockchain smart contracts. *F1000Research*, *5*, 1–7. <https://doi.org/10.12688/f1000research.9756.1>
- Pan, X., Pan, X., Song, M., Ai, B., & Ming, Y. (2020). Blockchain technology and enterprise operational capabilities: An empirical test. *International Journal of Information Management*, *52*(February), 0–1. <https://doi.org/10.1016/j.ijinfomgt.2019.05.002>
- Perboli, G., Musso, S., & Rosano, M. (2018). Blockchain in Logistics and Supply Chain: A Lean Approach for Designing Real-World Use Cases. *IEEE Access*, *6*(c), 62018–62028. <https://doi.org/10.1109/ACCESS.2018.2875782>
- Pujawan, I. N., & Mahendrawathi, E. (2017). *Supply Chain Management*. Andi Offset.
- Puthal, D., Malik, N., Mohanty, S. P., Kougianos, E., & Yang, C. (2018). The Blockchain as a Decentralized Security Framework. *IEEE Consumer Electronics Magazine*, *7*(2), 18–21. <https://doi.org/https://doi.org/10.1109/MCE.2017.2776459>
- PwC. (2018). PwC's Global Blockchain Survey 2018. In PwC.

www.pwccn.com/global-blockchain-survey-2018

- Robinson, A. (2015). *The Evolution and History of Supply Chain Management*. Cerasis Rater Transportation Management System. <https://cerasis.com/history-of-supply-chain-management/>
- Ross, A., Willson, V. L., Ross, A., & Willson, V. L. (2017). Paired Samples T-Test. *Basic and Advanced Statistical Tests*, 17–19. [https://doi.org/10.1007/978-94-6351-086-8\\_4](https://doi.org/10.1007/978-94-6351-086-8_4)
- Saberi, S., Kouhizadeh, M., Sarkis, J., & Shen, L. (2019). Blockchain technology and its relationships to sustainable supply chain management. *International Journal of Production Research*, 57(7), 2117–2135. <https://doi.org/10.1080/00207543.2018.1533261>
- Schmidt, C. G., & Wagner, S. M. (2019). Blockchain and supply chain relations: A transaction cost theory perspective. *Journal of Purchasing and Supply Management*, 25(4), 100552. <https://doi.org/10.1016/j.pursup.2019.100552>
- Schober, P., & Schwarte, L. A. (2018). Correlation coefficients: Appropriate use and interpretation. *Anesthesia and Analgesia*, 126(5), 1763–1768. <https://doi.org/10.1213/ANE.0000000000002864>
- Schulz, P. (2019). *Blockchain Quo Vadis: Applying the Perez Surge Cycle*. Medium.Com. <https://medium.com/invaio/blockchain-quo-vadis-applying-the-perez-surge-cycle-c15ba685c831#:~:text=The Perez Surge Cycle provides,adoption are still far out.&text=One way is to forecast,economic and technological growth drivers>.
- Sekaran, U., & Bougie, R. (2016). *Research Method for Business* (7th ed.). Printer Trento SrL.
- Sekaran, U., & Bougie, R. (2017). *Penelitian untuk Bisnis Pendekatan Pengembangan-Keahlian*. Salemba Empat.
- Shroff, R. (2020). *When Blockchain Meets Artificial Intelligence*. Medium.Com. <https://medium.com/swlh/when-blockchain-meets-artificial-intelligence-e448968d0482#:~:text=Blockchain-AI convergence is inevitable,and AI can be combined>.
- Song, J. M., Sung, J., & Park, T. (2019). Applications of Blockchain to Improve

- Supply Chain Traceability. *Procedia Computer Science*, 162(Itqm 2019), 119–122. <https://doi.org/10.1016/j.procs.2019.11.266>
- Stanton, D. (2018). *Supply Chain Management For Dummies*. John Wiley & Sons, Inc.
- Sugianto, V. Y. (2016). Analisis Kinerja Keuangan Sebelum dan Sesudah Go Public pada PT. Garuda Indonesia Tbk Tahun 2007-2014. *Jurnal Bisnis Dan Manajemen*, 52(11), 81–91.
- Sugiarto, E. (2017). *Menyusun Proposal Penelitian Kualitatif: Skripsi dan Tesis*. Suaka Media.
- Sugiyono. (2017). *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Alfabeta.
- Sugiyono. (2018). *Metode Penelitian Pendidikan: Pendekatan Kuantitatif, Kualitatif, dan R&D*. Alfabeta.
- Sujarweni, V. W. (2015). *Metodologi Penelitian Bisnis dan Ekonomi*. Pustaka Baru Press.
- Susanti, L. (2010). Analisis Perbandingan Biaya Kualitas Sebelum dan Sesudah Implementasi Total Quality Management Pada Divisi Tempa dan Cor PT. X (Persero) Bandung. *Jurnal Sains Manajemen Dan Akuntansi*, II(2).
- Tapscott, D., & Tapscott, A. (2016). *The Impact of the Blockchain Goes Beyond Financial Services*. Harvard Business Review. The Impact of the Blockchain Goes Beyond Financial Services
- The Guardian. (n.d.). *Company Profile of IBM*. The Guardian. Retrieved August 5, 2020, from <https://www.theguardian.com/sustainable-business/profile-ibm>
- Tönnissen, S., & Teuteberg, F. (2020). Analysing the impact of blockchain-technology for operations and supply chain management: An explanatory model drawn from multiple case studies. *International Journal of Information Management*, 52(April), 0–1. <https://doi.org/10.1016/j.ijinfomgt.2019.05.009>
- Turban, E., & Volonino, L. (2011). Information Technology for Management: Improving Strategic and Operational Performance. In *Society* (8th ed.). John Wiley.
- Wang, Y., Singgih, M., Wang, J., & Rit, M. (2019). Making sense of blockchain technology: How will it transform supply chains? *International Journal of*

- Production Economics*, 211(April 2018), 221–236.  
<https://doi.org/10.1016/j.ijpe.2019.02.002>
- Warner, K., Roberts, W., Mustain, P., Lowell, B., & Swain, M. (2019). *Casting a Wider Net: More Action Needed to Stop Seafood Fraud in the United States*. *March*, 19. <https://doi.org/https://doi.org/10.31230/osf.io/sbm8h>
- Warren, C. S., Reeve, J. M., & Duchac, J. E. (2014). Corporate Financial Accounting. In *Dk* (12th ed., Vol. 53, Issue 9). South-Western Cengage Learning.
- Wong, W. P., & Wong, K. Y. (2007). Supply chain performance measurement system using DEA modeling. *Industrial Management and Data Systems*, 107(3), 361–381. <https://doi.org/10.1108/02635570710734271>
- Wright, A., & Filippi, P. De. (2015). *Decentralized Blockchain Technology and the Rise of Lex Cryptographia*. <https://doi.org/https://dx.doi.org/10.2139/ssrn.2580664>
- Yusuf, Z., Bhatia, A., Gill, U., Kranz, M., Fleury, M., & Nannra, A. (2018). *Pairing Blockchain with IoT to Cut Supply Chain Costs*. BCG. <https://www.bcg.com/en-ao/publications/2018/pairing-blockchain-with-iot-to-cut-supply-chain-costs.aspx>
- Zheng, Z., Xie, S., Dai, H., Chen, X., & Wang, H. (2017). An Overview of Blockchain Technology: Architecture, Consensus, and Future Trends. *Proceedings - 2017 IEEE 6th International Congress on Big Data, BigData Congress 2017*, 557–564. <https://doi.org/10.1109/BigDataCongress.2017.85>
- Zimmerman, M. (2020). *IBM Unveils New AI Designed to Help CIOs Automate IT Operations for Greater Resiliency and Lower Costs*. IBM Newsroom. <https://newsroom.ibm.com/2020-05-05-IBM-Unveils-New-AI-Designed-to-Help-CIOs-Automate-IT-Operations-for-Greater-Resiliency-and-Lower-Costs>