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Literature review and literature map

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### Introduction

Technology assumes a crucial role when it comes to management. The modern businesses have integrated their management systems with technology ensuring that there is effectiveness in operations. Research indicates that 90% of managers utilize modern technology in their management activities. The basic truth is that nothing can be achieved in an organization without the existence of a good management system. Management has been simplified and made more effective through the utilization of the modern technology. Managers can now achieve significant success in their operations through the application of the modern technology in meeting the basic managerial functions. The paper focuses on a literature review and a literature map on the topic of impacts of technology on management.

### Literature review

Afzal, A. (2019). The Role of Information Technology in Business Success. Retrieved 1 August 2019, from <https://www.linkedin.com/pulse/role-information-technology-business-success-abid-afzal-butt>

Afzal reviews the crucial role that technology plays in effective management of a business. Afzal has conducted a thorough research which aims at highlighting the crucial role of technology in promoting business success. According to Afzal, without technology in managerial operations, all the organizational processes would be jeopardized.

Chen, Y., & Zhu, J. (2016). Measuring Information Technology's Indirect Impact on Firm Performance. *Information Technology and Management*, 5(1/2), 9-22. Doi: 10.1023/b:item.00000008075.43543.97

Chen and Zhu explore the significant role played by information technology on the performance of the firm. According to Chen and Zhu, information technology has ensured that the job of a manager becomes more simplified and effective. Information technology has ensured that managers interact effectively with all the employees and other stakeholders to achieve operational effectiveness. Chen and Zhu conducted various case studies on organizations that have implemented information technology in their operations to come up with the research conclusion.

Dam Data Collection and Monitoring System. (2016). *International Journal of Science and Research (IJSR)*, 5(6), 1787-1790. Doi: 10.21275/v5i6.21061604

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This study was conducted by researchers in the field of Science and Research. The main of this research was to underpin the role of data collection and monitoring system in managerial functions. From the study, it was established that data collection and monitoring systems assume a crucial role when it comes to project management. From the study, it was established that organizations which have employed modern technology in their operations have achieved significant success in their operations and projects.

Drejer, A. (2017). Strategic innovation: a new perspective on strategic management. *Handbook Of Business Strategy*, 7(1), 143-147. doi: 10.1108/10775730610618756

Drejer conducted a research on strategic management in the face of the new technology. According to Drejer, modern technology has ensured that effectiveness is achieved in the business operations as a whole through successful strategic planning. The study links the importance of technology in management by analyzing how strategic management has been influenced by the modern technology.

Greasley, A. (2018). *Operations management*. Los Angeles: SAGE Publications.

Greasley comes up with a whole book on operations management in 2018. Greasley aimed at identifying the crucial role played by technology in managing the business operations. Greasley employs a multi-dimensional research approach to come with the research findings. Unlike other authors, Greasley used both quantitative and quantitative research methods.

IEEE. (2016). *Proceedings of the first International Technology Management Conference*. [Piscataway, N.J.].

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This study sums up the guidelines and lessons from a conference on the role played by technology in management. From the study it is clear that technology plays a fundamental role in management and ought to be embraced. Most of the contributors in the study stated that technology ought to be embraced in management operations for a successful business venture.

Lindgren, P., Valter, P., & Kingo, G. (2018). Sensing Multi Business Model Innovation via

Advanced Sensor Technology. *Nordic And Baltic Journal Of Information And*

*Communications Technologies*, 2018(1), 1-18. doi: 10.13052/nbjict1902-097x.2018.002

This study was conducted by Lindgren, Valter & Kingo in 2018. The study was tailored on evaluating the crucial role played by the advanced sensor technology in business operations. The study mostly involved case studies and reviews of earlier studies on the same topic. The study established that technological advancements assume a crucial role in management communications and gathering of information.

Lindgren, P., & Bandholm, J. (2016). Business Model Innovation from an Business Model

Ecosystem Perspective. *Journal Of Multi Business Model Innovation And Technology*,

4(2), 51-70. doi: 10.13052/jmbmit2245-456x.422

Lindgren & Bandholm conducted this research with the aim of analyzing the crucial role played by technological innovations in business management and operations. From the research, Lindgren & Bandholm establish that technological advancements have taken the business operations to the newest level. Innovations in business have ensured that managers achieve their roles and responsibilities through a mere press of a button. The innovations have been crucial in leading to multinational operations by different companies.

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Mangelsdorf, D. (2017). Evolution from quality management to an integrative system in modern businesses. *Total Quality Management*, 9(4-5), 164-166. doi: 10.1080/0954412988811

This study was conducted by Mangelsdorf in 2017 with the aim of finding out the evolutions that have transpired in modern business due to quality management. The author uses case studies as well as research from other researchers to sum his findings. From the research, it is evident that technology has greatly influenced the modern management system systems and without it efficiency is not guaranteed.

MARENICZENKO, V. (2018). STATE MANAGEMENT MECHANISMS OF BUSINESS IN DEVELOPED COUNTRIES. *Modern Management Review*. doi: 10.7862/rz.2018.mmr.49

MARENICZENKO carried this study in 2018 with the aim of identifying how the developed countries such as Canada, Germany and France utilize technology in their management operations. From the study, it was established that all the developed countries mostly rely in technology when it comes to management activities. From the study, it was established that approximately 90% of businesses in the developed countries employ modern technology in their management and general business operations.

Phusalux, J., Buatama, U., & Fongsuwan, W. (2015). Determinants of Modern Management of Private Vocational Colleges: A Structural Equation Model. *Research Journal Of Business Management*, 9(2), 378-390. doi: 10.3923/rjbm.2015.378.390

Phusalux, Buatama & Fongsuwan conducted this research in 2015 with the aim of scrutinizing the determinants of modern management of private vocational colleges. The research applied a structural equation model which makes it much different from the other

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researches. From the study, it was established that colleges significantly use modern technology in their management activities.

Ramey, K. (2019). Use of Technology In Management - Use of Technology. Retrieved 1 August 2019, from <https://www.useoftechnology.com/technology-management/>

This study reflects on use of technology in management. Ramey gives a thorough analysis on how technology has significantly influenced management operations. According to this study, it is crystal clear that technology plays a crucial role in promoting operational effectiveness. Moreover, technology ensures that managerial functions are achieved as appropriate.

Rao, S., & Prasad, R. (2018). Telecom Operators ♦ Business Model Innovation in a 5GWorld. *Journal Of Multi Business Model Innovation And Technology*, 4(3), 149-178. doi: 10.13052/jmbmit2245-456x.431

Rao & Prasad conducted this research in 2018 with the aim of finding out the business innovations in a world where 5G network has been achieved in business operations. The study was mostly based on Telecom operators who have significantly enjoyed the 5G network. According to Rao & Prasad, 5G network has been of crucial role in influencing the managerial operations in different organizations. It is through the 5G network that managerial operations have been enhanced and made more effective.



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Song, Y. (2017). "Business Administration and Educational Technology -Convergent of Business and Educational Technology within Ever-Changing Business Environment-". *Journal Of Educational Technology*, 16(3), 183-199. doi: 10.17232/kset.16.3.183

Song conducted this study in 2017 with the aim of finding out the role of business and educational technology within the ever advancing business environment. According to Song, technology assumes a crucial role when it comes to the achievement of all the managerial functions by the managers. Song argues that successful managers are the ones who have been able to navigate through the ever-changing business environment through the application of modern technology in their business operations.

Subhashini, S., & Hemamalini, K. (2016). An Empirical Study on the Drivers of E-Commerce Business. *Indian Journal Of Science And Technology*, 9(32). doi: 10.17485/ijst/2016/v9i32/98648

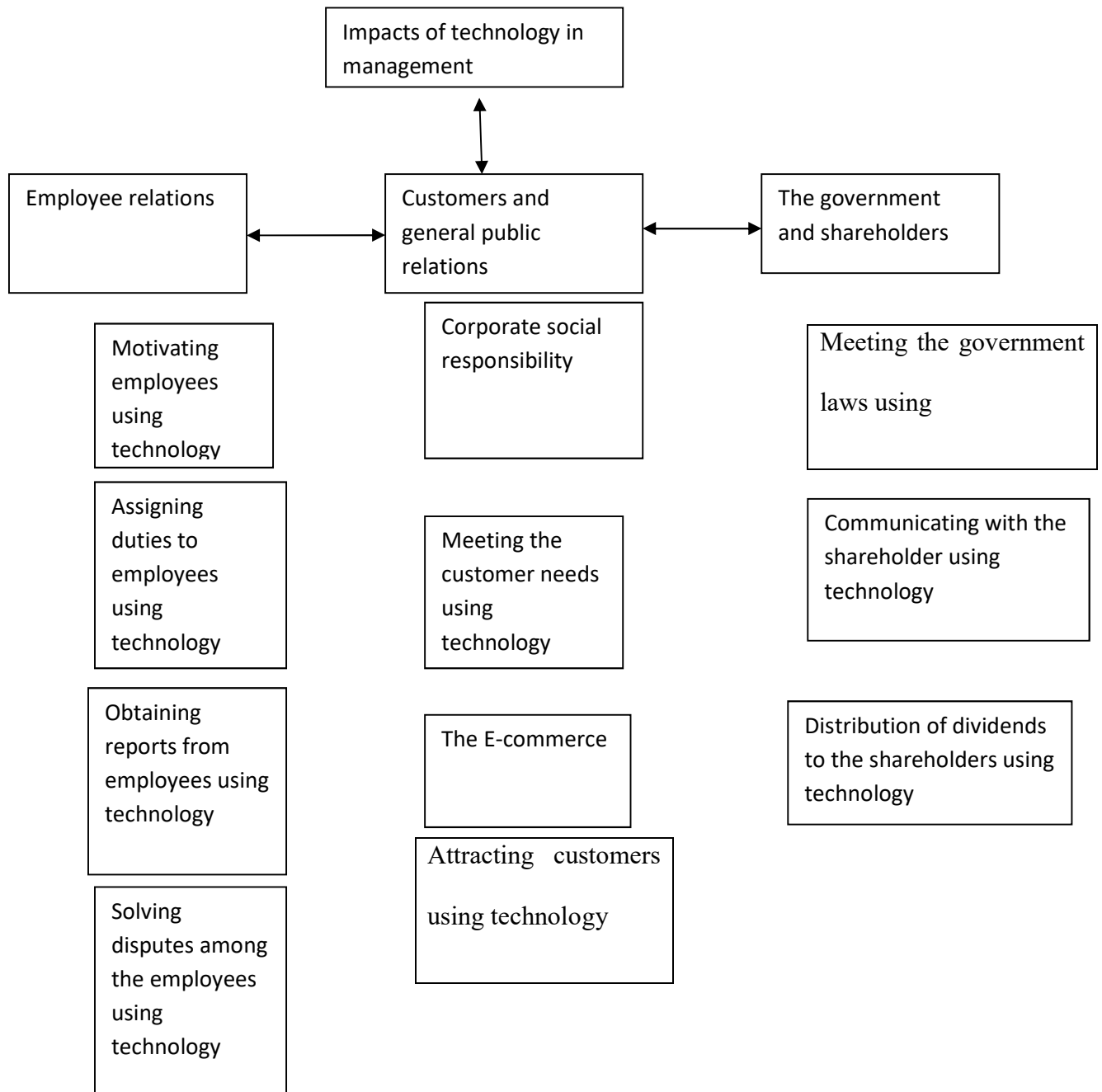
This study was conducted by Subhashini & Hemamalini in 2016 and aims at underpinning the drivers of e-commerce business. From the study, it is clear that one of the drivers in the e-commerce business is technology. Subhashini & Hemamalini argue that without the adoption of the modern technology, the e-commerce platform of any business is likely to crumble. The study states that the management of every e-commerce platform employs the modern technology in achieving operational effectiveness.

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### **The similarities and differences, and gaps from the articles**

From the articles, it is evident that most of the authors used common mythologies in coming up with their studies. The authors mostly used case studies in coming up with the research findings. It is crucial knowing that case studies have their merits and demerits when it comes to effective data collection. From the literature review, it is evident that not most of the authors who extended their studies to various parts of the world or industries. The studies were mostly limited to specific industries in specific countries. Authors should make efforts to augment their research to other industries as this is crucial in reliability and validity of research. The methods applied by the researchers were common except for some specific authors. From the literature review, the authors who used a different approach in their research were noted. It is clear that there are no major differences in the research conducted by the authors as the approaches to the research and findings were almost similar. The major differences aroused from the interpretation of the research findings and the depth of the research as a whole.

### Literature map



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