



Covid-19: Knowledge Development, Exchange, and Emerging Technologies

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Abstract

It has been estimated that digital adoption coming out of emerging technologies has taken an enormous leap in the past year at the level of organizations, industries, and society as a whole. In just a few years, the COVID-19 crisis has created significant changes in the way society has developed knowledge, exchanged knowledge, and adopted emerging technologies. In just a few years, the COVID-19 crisis has created significant changes in the way society has developed knowledge, exchanged knowledge, and adopted emerging technologies. Increasingly important in the current social landscape will be the development and exchange of knowledge as emerging technologies continue to transform the post Covid-19 converging landscape. A post-covid context remains vastly unexplored in terms of knowledge development and exchange despite the popularity of Covid-19 and emerging technologies. It is the purpose of this research to provide insight into knowledge development, exchange, and emerging technologies in a global context. The conclusions presented in this paper were developed by conducting a thorough in-depth interview with 124 professionals from 12 different organizations that are involved in knowledge development, knowledge exchange, and emerging technologies with a view to the conclusions presented in this paper.

Keywords: *Knowledge Development; Knowledge Exchange; Knowledge and Emerging Technologies*

Introduction

Several characteristics of emerging technologies distinguish them from traditional technologies and their impacts on knowledge development and exchange: radical novelty, if not in the actual application, relatively rapid growth, coherence, an important impact, uncertainty, and ambiguity. Emerging technologies have therefore become an important topic for knowledge development and exchange, as well as a broad range of areas including robotics and artificial intelligence. In addition, as newer technologies are constantly evolving on a constant basis, the thoughts, methods, and tools that go into developing them are also continually evolving. The availability of emerging technologies can provide limitless opportunities for knowledge development and exchange, both on a personal and global level. Most people agree that emerging technologies enable businesses to operate more efficiently and provide a

voice for the voiceless. In addition, emerging technologies assist in the inter-exchange of information (including expertise, skills, and information) among friends, families, peers, communities, groups of people, or companies. Emerging technologies enable knowledge sharing by simplifying access to information and by reducing the barriers related to time and distance.

The Development and Exchange of Knowledge

Because the new technologies themselves are knowledge-intensive in nature, they are intrinsically difficult to comprehend, and this is due to the very nature of the technologies themselves. According to the author, after conducting the interviews he has come to the conclusion that knowledge sharing is one of the possible solutions in order to reduce the incidence of high failure rates in knowledge development and exchange in societies. The author would like to emphasize that, in order for these technologies to succeed, it is imperative that they are designed and implemented in a way that incorporates knowledge sharing. Despite the fact that we would argue that the creation of knowledge is of vital importance to society, its dissemination and exchange with the rest of the world have even greater significance. A process of knowledge sharing takes place in which the right information is shared with the right people at the right time, using a format that allows the information to be conveyed in such a way that it is easily understood, so that the people making those decisions can make informed choices, and thus, contribute to increasing the development and exchange of knowledge. The most important thing we must do is make improvements to the system as a whole in terms of knowledge development and exchange in order for it to function better.

There are many possibilities in which knowledge can be shared, including between and within cultures, as well as within the framework of social organizations. From the local to the global level, from the poor to the wealthy, there is the possibility that knowledge development and exchange can take place in any place, from the local to the global level. The development of knowledge and the exchange of it has become an integral part of modern life, whether it is considering good government, an engaged citizenry that contributes to growth, and so on. The inevitable fact is that, throughout the years ahead, society will develop and exchange knowledge unrestrainedly, unstopably, and unrelentingly, thereby heralding the arrival of a knowledge-based society capable of managing the changing nature of development. Moreover, knowledge development and exchange are part of the reform process that aims to ensure that the marginal and underprivileged groups are included in the reform process as well. With the advent of emerging technologies, social media has become the most common form of knowledge development and exchange of knowledge. It goes without saying that knowledge was made possible by the advent of technology. The emergence of emerging technologies has led to the creation of new and more efficient ways of disseminating and retrieving knowledge as well as new methods of instant knowledge development and exchange and a wide array of new possibilities for new commercial opportunities triggered by knowledge management and ways of doing business.

Integration of Emerging Technologies and Knowledge

Through verbal communication, written texts, and everyday practices, knowledge has been passed down throughout the generations. On the one side of the coin, the development and exchange of knowledge have traditionally been governed by both geographical and hierarchical methods of organization. It is also important to keep in mind the other side of the coin, which is new technologies, which are able to eliminate all barriers to knowledge development and exchange due to environmental, societal, and cultural factors. It is emerging technologies that have the potential to help individuals leapfrog some of the traditional barriers to advancement by harnessing knowledge in many different ways, particularly by increasing the availability of knowledge development and exchange, expanding the reach of their market base, increasing employment opportunities, and creating new products that are more useful to society collectively.

As new technologies arise, they facilitate efficient and economical methods of retrieval, archiving, and distributing correct information to organizations, such as schools and businesses, which will greatly improve the administration processes. Furthermore, ever-evolving technologies enable quick and effective decision making. Helping in the analysis of data and in the dissemination of knowledge, emerging technologies help in the improvement of monitoring of organizational resources, and they can enhance the productivity of administrators. It is this adoption of emerging technologies that will enable effective communication and knowledge development and exchange, therefore enhancing both activities and task coordination, simplifying the planning process, increasing the acquisition of skills, and enhancing and developing the capability of data processing in the future. It is also important to note that emerging technologies facilitate information management and knowledge sharing in a more efficient manner. Throughout history, the way knowledge is developed and exchanged has been enabled by the Internet, communication technology, search engines, data-mining systems, robotics, and other emerging technologies.

Conclusion

Technology is a crucial aspect when it comes to bridging the gap between knowledge generation and exchange in organizations due to the use of emerging technologies. The development and exchange of knowledge on the topic of international economic integration in commodities and services, direct investment, and technology flows, as well as human mobility in a global context. In the development of economic development for more than a century, the development and exchange of knowledge have always played a role. In the years following the formation of emerging technologies, the pace of technological advancement and technological advancement has accelerated as a result of the appearance of these new technologies. In order to keep up with the growing demand for knowledge development and exchange in the world and to be competitive in an increasingly competitive environment, it is crucial for societies to rely on emerging technologies to build system services. One of the most effective methods of promoting knowledge development and exchange are multinational corporations, which are considered as one of the most important tools to accomplish that. In terms of economic growth, technologies that are not yet developed in terms of their application in knowledge development and exchange will contribute to an increase in productivity since they will change the economic structure. The world's economic competitive nature is determined by knowledge and productivity. A major factor in determining the success of the emerging technologies sector is the level of productivity in each of the sectors. Accordingly, we are inclined to draw the conclusion that a state's ability to compete is dependent upon its performance in the sector of emerging technologies. In order to ensure better knowledge development and exchange in the future, overcoming knowledge sharing barriers is one of the steps that you can take. A number of studies conducted in the past few years have found that the use of emerging technologies can have a significant impact on knowledge development and exchange within organizations by enhancing the method of sharing knowledge, minimizing barriers to sharing knowledge, and overcoming technological obstacles. We have been utilizing emerging technologies in a variety of fields in order to create a professional knowledge-sharing network that can serve all kinds of purposes. It has been proven that by effectively utilizing emerging technologies, we have the ability to reduce time and space barriers as well as obstacles to knowledge development and exchange that would otherwise exist.

The ability of emerging technologies to play a part in reducing the barriers to individual and organizational knowledge development and exchange can be of great benefit to them in achieving their goals. On the other hand, technology barriers themselves cannot easily be reduced by emerging technologies. We will be able to increase the pace of innovation across societies and facilitate knowledge exchange and sharing of experiences if we empower society with technology expertise and ensure that the

entire society is involved in the process of deploying and designing the new technologies. It can be minimized and even eliminated altogether technology barriers so that knowledge can be developed and exchanged between different societies in a better way. Emerging technologies are becoming increasingly important to the success of organizations in today's global environment, where they are used to their benefit. There should be recognition that emerging technologies are a collection of technological tools, tools and resources that allow people to research, discover, create, preserve, modify, and exchange knowledge in a variety of different ways. As examples of early emerging technologies, artificial intelligence (AI) and robotics, both of which have been extremely beneficial to the development of various nations, are examples of early emerging technologies. The emerging technologies of today include machine learning and 5G networks, and they are examples of modern emerging technologies. A remarkable story of the growth of worldwide cellular networks, commonly known as mobile phone technology, which is powered by 5G networks these days, has been unfolding over the last twenty years. Due to these developments, information, products, and people have been able to flow across international borders in a more efficient manner. If we take into account all of the factors that contribute to the emergence of new technologies at the same time, we are able to see that these technologies have a significant impact on the development and exchange of knowledge in nearly all spheres. A major part of knowledge development and exchange can also be attributed to technological advances. As a result, developing efficient infrastructures for their emerging technologies is of paramount importance for societies in the future. The reason for this is that the role of emerging technologies in knowledge development and exchange in our world today is increasing in importance and usefulness day by day.

References

1. Azlan, A. A., Hamzah, M. R., Sern, T. J., Ayub, S. H., & Mohamad, E. (2020). Public knowledge, attitudes and practices towards COVID-19: A cross-sectional study in Malaysia. *Plos one*, 15(5), e0233668.
2. Baisya, R. K., & Tiwari, S. P. (2008). E-governance Challenges and Strategies for Better-managed Projects. *Emerging Technologies in E-Government*, 203-208.
3. Beech, N., & Anseel, F. (2020). COVID-19 and its impact on management research and education: Threats, opportunities and a manifesto. *British Journal of Management*, 31(3), 447
4. Carrillo, C., & Flores, M. A. (2020). COVID-19 and teacher education: a literature review of online teaching and learning practices. *European Journal of Teacher Education*, 43(4), 466-487.
5. Hossain, M. M. (2020). Current status of global research on novel coronavirus disease (Covid-19): A bibliometric analysis and knowledge mapping. Hossain MM. Current status of global research on novel coronavirus disease (COVID-19): a bibliometric analysis and knowledge mapping [version 1].
6. Tiwari, S. P. (2015). Strengthening E-Commerce Product Launches-Improving Efficiencies from Development to Production. Project And Technology Management Foundation (A Non-Profit Organization) Member of Asia Pacific Federation of Project Management, 1(2), 4-6.
7. Tiwari, S. P., & Tiwari, S. P. (2018). Is export-oriented and currency dynamics-based Indian soybean revolution environment-friendly?. *Current Science*, 114(08), 1604-1605.
8. Tiwari, S. P. (2022). Information and communication technology initiatives for knowledge sharing in agriculture. arXiv preprint arXiv:2202.08649.



9. Tiwari, S. P. (2022). Re-emergence of Asia in the New Industrial Era. *Technium Social Sciences Journal*, 29, 471-480.
10. Tiwari, S. P. (2022). Emerging Technologies: Factors Influencing Knowledge Sharing.
11. Tiwari, S. P. (2022). Organizational Competitiveness and Digital Governance Challenges. *SocArXiv*. March, 29.
12. Tiwari, S. P. (2022). Emerging trends in soybean industry. *arXiv preprint arXiv:2202.08590*.
13. Tiwari, S. P. (2022). Organizational Competitiveness and Digital Governance Challenges. *SocArXiv*. March, 29.
14. Velásquez, R. M. A., & Lara, J. V. M. (2021). Knowledge management in two universities before and during the COVID-19 effect in Peru. *Technology in Society*, 64, 101479.

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