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DIGITAL GOVERNANCE EMERGENCE AND IMPORTANCE

Fatima A. Algazo^{1*}, Suraiya Ibrahim^{2*}, Wan Sallha Yusoff³

- ¹ Faculty of Applied and Human Sciences, University of Malaysia Perlis, Perlis, Malaysia
Email: fatimaali@studentmail.unimap.edu.my
- ² Faculty of Applied and Human Sciences, University of Malaysia Perlis, Perlis, Malaysia
Email: suraiya@unimap.edu.my
- ³ Faculty of Applied and Human Sciences, University of Malaysia Perlis, Perlis, Malaysia
Email: wansallha@unimap.edu.my
- * Corresponding Author

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Abstract:

The research is a conceptual paper that explains its effect on society and the realistic models of digital governance. In this paper, we discuss fundamental questions such as how the term “digital governance” can be defined in the present age; what is the role of modern information technology in achieving the objectives of digital governance; whether digital governance is a revolutionary tool for transforming government governance around the world; and what are the Digital Governance theoretical models that can help Governments ensure the provision of citizens’ services and facilities. In addition, the research compared various digital governance models, including a broadcasting model, a Critical Flow Model, a Comparative Analysis Model, an E-Advocacy model, and an Interactive Service Model.

Keywords:

Digital Governance, Government, Technology, Model, Communication

Introduction

A new form of governance is needed to address interlinked complexities of the speed and synergy of emerging technologies, transnational effects of technology and broader social impacts. Also, the political nature of technologies in the complex, transforming and dispersed nature of the Fourth Industrial Revolution (Schwab & Davis, 2018). Digital Governance is the framework used to define a digital presence organisation’s responsibilities, role, and decision-making authority (Wang, Medaglia, & Zheng, 2018), including its websites, mobile sites, social

media, and other products or services available on the Internet and the Web (Palvia & Sharma, 2007). Having a well-designed digital governance structure minimises the number of tactical discussions on the existence and management of a digital presence. By clarifying who has decision-making authority in the digital team in the following fields: Digital strategy: Who sets the digital direction? A digital strategy articulates an organisation's approach for exploiting the Internet and the World Wide Web capacity. There are two aspects of a digital strategy: guiding principles and success goals (Tumbas, Berente, & Brocke, 2018).

The second dynamic is the global reach of emerging technology and the broad social effects. The exponential diffusion of these innovations affects surrounding environments, including investment, business strategies, efficiency, consumption and human behaviours (Lin, Yip, Ho, & Sambasivan, 2020). Emerging technology challenges technology regulation itself and calls for new strategies, methods, and social security frameworks for managing labour market interferences, for example, the environment and human interactions (Makowski & Kajikawa, 2021). It requires laws and regulations to ensure that human labour, innovation and the preservation of political engagement and citizen agency increased rather than replaced. Thus, the regulation has given the influence of emerging technologies. New mechanisms need an establishment to both national and international, to promote synchronisation and to learn between governments dealing with similar issues (Wallach & Marchant, 2018).

The third dynamic comes from the political essence of new technologies – not in the sense that they are “right-wing” or “left-wing” (Salmela & von Scheve, 2018). However, in any way, but in the sense that technologies represent ideals, suppositions and concepts that influence society. Consequently, the impact of using certain technologies is more than neutral (Foray, 2019). The concepts, philosophies of the developers who create them, and the standards and principles they build and apply their applications and results.

Importance of The Study

Universities should use governance concepts to regulate their activities because they play a critical role in community leadership for development and growth. Governance is a management strategy that promotes a deeper grasp of quality principles and university excellence, as well as a balance of independence and participation. The implementation of governance, according to Alsharif (2019), enhances the notions of transparency and accountability. University governance aids in the achievement of organisational efficiency and effectiveness, as well as the production of competitive education and the meeting of modern difficulties. According to Al-Fawzan (2017), implementing corporate governance in Saudi universities helps the country achieve Vision 2030 by establishing accountability standards, establishing effective organisational structures, and learning from the experiences of international universities in the field of governance.

While the reviews presented to highlight the importance of the digital governance in universities there remain knowledge gaps concerning who can effectively use new information and communication tools, such as the Internet, and those who cannot”

Literature Review

Defining the Term 'Digital Governance.'

Interchangeable uses made of digital government and digital governance. Digital governance or e-governance, on the other hand, focuses on public engagement and its position on people (Gao & Lee, 2017). Digital governance characterised as the use of information technology in a government operation to increase the delivery of public services to people and other government services user, individuals and organisations (Twizeyimana & Andersson, 2019). The distribution of information and services electronically via the Internet or other digital methods is guaranteed in West Digital Governance under e-government (Sundberg, 2019).

Digital governance or e-government can, in (1) interaction between government, people and government and corporations as well as in (2) internal government operations, described as the implementation of electronic means to simplify and enhance governance in the political, government and business aspects (Choi & Chandler, 2020; Wang et al., 2018). According to Kettl, "Governance" describes how the government links to its broader political, social, administrative and environment (Kettl, 2015).

Modern Information and Communication Technologies Digital Governance

Indeed, there have been three layers of contact established between customers/citizens and administration. It is information in one way (information portals), interaction (completing and submitting formularies through the Internet) (advice or consultations via the Internet) (Capolupo, Piscopo, & Annarumma, 2019). These can also be labelled as a first move, including "replacement," since conventional paper or interactive services are digitised and replaced by an e-interface without altering how services are manufactured (Milakovich, 2012). There are three more phases between transforming state operations using modern technologies; (1) mirroring, (2) emerging digital goods and (3) overall output outsourcing.

Mirroring

However, the next step in using new technology to transform government organisational activities would entail significant changes in the way services are produced (Bengtsson, Alfredsson, Cohen, Lorek, & Schroeder, 2018). Initially, these innovations are merely used to enhance the manufacturing process while at the same time customer support enhancements. For example, a user may use the tracking and tracing feature to follow a file through the administrative maze.

New Services

After the first phase, the knowledge about the procedures and consumers are managed to develop new services. Most services are delivered on the Internet or via other interfaces based on technologies (SMS). For example, statistics on organisational performance can be used (the time it takes on average to receive a permit). Government services must sometimes be used to create these new services by private operators (Cordella & Tempini, 2015).

Efficient Management

The third step is to handle outsourced and privatised services effectively. Digital governance is a complex concept. Literally, it involves non-state players at levels other than the national one through modern information and communication technology for the three main State

functions (Hopkins, Crane, Nightingale, & Baden-Fuller, 2019). For instance, e-government, e-regulation and e-democracy.

Digital Governance Models

A few basic theoretical models of digital governance are available to direct the realisation of this concept. The innovations continue to be the same in these versions with two features. First, these digital governance models include fair access to data for everyone connected to the digital network. Second, de-concentration of information through the digital network (Wirtz, Weyerer, & Schichtel, 2019).

Design for Broadcasting

In the broadcasting model, governance-based content, already publicly accessible, is further distributed to the broader public domain using modern ICTs. It raises citizens' awareness about and how the ongoing democratic processes and government services are available to them (Lee-Geiller & Lee, 2019). It helps people express an opinion on the services provided to them by the government and its administrations, whether public services are at their disposal, and the level of service they get (Wirtz, Weyerer, & Rösch, 2019). A few examples can include online government regulations and legislation, an online publication of critical judgements.

Model for Comparative Analysis

Comparative analysis is used to inspire citizens by comparing bad governance cases with good governance, identifying certain factors and reasons, and improving the situation (Beeri, Uster, & Vigoda-Gadot, 2019). The model is built on an enormous ICT and social media tool to analyse data sets with comparable knowledge in public and private sectors. Essentially, in the various fields of governance, the model continually assimilates "best practises" and employs them to test other governance practices (Chang, 2018). The results are then used to advocate good reforms or shape the 'public' view of current governance practices. The comparison could be carried out over a period to obtain an instant overview of the past and the current situation or could be used by comparing two identical circumstances to make an intervention effective.

Model of Critical Flow

The model focuses on the transmission of "sensitive" valuable information. It is by default not to disclose to a targeted audience using ICTs and other resources, and it engages in poor governance practices. The audience targeted can cover the media, the parties concerned, the opposition parties, the judicial bench, independent researchers, or the general public (Xu, Badea, & Cheng, 2021).

Model of E-Advocacy

E-Advocacy/Mobilization & Lobbying Model has also helped global civil society in its global decision-making processes. It is one of the most widely used Digital Governance models (Popoola, Matthew, & Fayomi, 2020). The model focuses on establishing a planned, directed information flow to create solid virtual allies to complement real-world activities. Virtual communities that share common values and interests are created, connecting or encouraging real-life groups/activities for concerted action. Incorporating views and concerns from virtual communities, the model creates the energy of the real-world processes (Popoola et al., 2020).

Model of Service Delivery

The interactive service model represents a consolidation of other forms of digital governance and opens individual and self-service involvement in management processes (Linders, Liao, & Wang, 2018). According to this model, the different services provided by the government are accessible interactively directly to their residents. It does this through the establishment of a channel between government and consumer interactive governance (G2C2G) in various aspects of administration, including governmental elections (e-ballots); decision-making on specific issues (such as healthcare plans), delivery of individualised government services, measurement of public mood and opinion, and the provision of specific management advice or services for specific communities (Linders et al., 2018).

Digital Governance in The Saudi University

Based on the crucial importance of data in digitisation processes, it is proposing that data management for all organisations, including universities today, is essential to digital transformation processes (Keating & Katina, 2019). The concept of data management has increased in recent years, given the enormous increase in the amount of data that universities now create, collect and store. In addition to its fear of security, privacy, compliance and legal violations, universities have understood the need to establish legislation governing a vast number of data and information. The university encourages data governance policies based on Big Data. A more intelligent choice and better insight into performance through efficient data governance practices will help increase efficiency (Lee-Geiller & Lee, 2019). The significant decisions about saving data made by individuals that created and used these data before the appearance of big data were known. Many universities realise that they need a structured system that monitors how data is stored, administered, maintained and secured against accidental or critical infringements (Balzer, 2020).

Al-Abbas (2009) is devoted to defining, through benchmarking, governance, and international standards and practices on university governance in Saudi Arabia. It underlined the importance of governance at universities and its positive impact on Saudi Arabia's higher education sector. However, in comparison with other universities, there are weak governance principles in Saudi Universities.

Digital Governance in The India University

According to Fenton et al. (2019), digital transformation reflecting available technology and constantly prepare, change the way people live, work, think, engage, and connect with people. This enhances productivity, cuts expenses and quickly and flexibly delivers new services through effective digital transformation processes. It has the effect of bringing about and enhancing their experiences and efficiency a fundamental shift in the services offered to people in various areas, including health, education, safety and security (Kale, 2019).

Data management for all organisations, including universities, is indispensable to digital transformation processes (Leignel et al., 2016). In recent years, the idea of data governance has increased because of the enormous growth in the quantity of data that universities today generate, collect and store. In addition to fearing the risk of safety, privacy, enforcement and legal infringement, universities have realised the need to lay down legislation regulating this massive quantity of data and information.

For example, in various vital processes, grants, certificates of utilisation, approval processes, and feedback mechanisms. Digital governance in the higher education system will enable various stakeholders to monitor the improved operative performance. The Indian Higher Education System (IHS) will be introduced to address students' needs by making them more employable and fighting potential competition by international universities with deeper exposure and improved operational efficiency (Shrivastava et al., 2014).

Consolidated information on each university and college should be provided to monitor the success to remove the copying of procedures. The digital management tools can allow universities or colleges to apply their documents for approval online. All organisations should coordinate internally to transmit the information of the shared pool. The needless duplication of labour in the university will be significantly reduced. In addition to this, a series of other services can be offered by establishing this kind of governance (Kumar, 2012).

Improved performance, increased transparency and accountability for educational administrative operations, and quicker access to facilities and lower administrative costs are benefited from digital governance in the education sector. These items explain the multifaceted benefits of digital governance (Kapoor & Kelkar, 2013):

Benefits for university	Benefits for college
1. Centralized access to knowledge 2. Increased student registration ratio 3. Improving clarity 4. Enhanced public participation decision-making	1. Data can be easily accessed 2. Saving covert operating costs 3. University electronic data exchange
Benefits for students	Benefits for Education system as a whole
1. Enhance educational engagement 2. Collaboration social connectivity 3. University feedback can be given by students 4. Comprehensive time saving & effort	1. Long-term effects on the organisation's objectives 2. Enhance the educational system 3. Faculty and student empowerment, as well as encouragement of their role in governance

Methodology

The paper is a theoretical and conceptual evaluation. In contrast, a literature review and a digital governance conceptual approach have practical consequences for scholars and practitioners. This approach is rooted in the potential of digital governance, and the role played in better understanding and dealing with social problems by modern information and communications technologies and digital governances.

Findings

In terms of the effective role data governance may play in the implementation of digital transformation processes, the study's findings are consistent with the digital governance literature. Successful universities must implement working data governance policies that assure the efficient development of data and the proper handling of that data.

Conclusion

Given that the government is to identify viable methods of delivering digital services, new technologies for lasting change need to be transformed. Otherwise, by introducing innovative approaches and adopting appropriate and consistent technological methods, the government is still trying to find viable ways to minimise costs and address organisational issues. Digital technology can be a powerful way of transforming public sector services to improve humanity and creating a public government that is more responsive, creative and transparent. While the government faces many challenges in adopting these modern approaches, tools, practices, and models, IT remains an integral part of implementing various new technologies to improve services (Criado & Gil-Garcia, 2019). Therefore, technology-enabled digital government platforms strive to effectively help self-organising, multidisciplinary colleges and turn concepts and ideas into actions. It encourages innovation by mobilising stakeholders to cut costs and promote service provision.

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