

Organizational Leadership in Accelerating Digital Transformation

Nazmah^{1*}, Achmad Yani², Dian Purnama Sari¹

¹ Program of Management, Sekolah Tinggi Ilmu Manajemen Sukma. Medan, Indonesia.

² Faculty of Social Science, Universiti Sains Malaysia. Penang, Malaysia.

Article History

Received:
12.04.2025

Revised:
19.05.2025

Accepted:
02.06.2025

*Corresponding Author:

Nazmah
Email:
nazmah@stimsukmamedan.
ac.id

This is an open access article,
licensed under: [CC-BY-SA](#)



Abstract: In the research, the focus is on organizations that have transitioned towards digitization across Indonesia. Managing organizational resources is key to understanding the shift from bureaucracy to digital, with the leader's role crucial in optimizing organizational effectiveness. Human resource development emphasizes viewing individuals as assets. This study involves all employees of Public Body X as samples, using a purposive sampling approach. In the context of Indonesia's government digitization policy, institutions already have digital platforms to enhance transparency. The article highlights challenges such as resistance to change, especially within robust bureaucratic structures, underscoring the importance of leaders being flexible and responsive to change demands. Looking ahead, the article emphasizes the significance of leaders with a growth mindset to comprehend and develop their potential in the digital era. Transformation towards a more agile digital system requires innovative strategies and the willingness of organizational members to undergo comprehensive change. In conclusion, leaders understanding digital dynamics can drive organizational effectiveness and efficiency while addressing challenges in the digital era.

Keywords: Digital Transformation, Growth Mindset, Leadership, Organizational Change, Public Sector.



1. Introduction

In today's world, changes brought by the digital era have intensified competition and demands within the industrial sector. This has compelled organizations to transform to survive in the business world. As Javaid [1] suggests, digitalization has enabled processes that provide stronger opportunities for transformation and the reinvention of existing business models. We are now in an era where technological sophistication is widely used to activate and leverage the benefits of digital applications and big data [2].

The use of information and communication technology (ICT) has had a profound impact on work patterns and individual as well as organizational behavior. The shift in work patterns through the use of technology is essentially aimed at improving societal welfare as part of broader national transformation [3]. Digitalization has significantly shaped civilization, as nearly all types of transactions, be it trade or communication, are now technology-based.

These behavioral changes naturally influence the organizational ecosystem, where employees are required to adapt and thrive in the digital age. Horney [4] argues that such changes lead to a shift in the necessary work skills, an increased emphasis on innovation and change awareness, transformation in work behavior, the emergence of new skill sets, and a redefined leadership role in guiding the achievement of organizational vision and mission.

In this study, the organization selected as a sample is a non-state-owned public institution that has been transitioning toward digitalization, with branches spread across the Indonesian archipelago. Managing organizational resources is crucial to understanding the shift from a bureaucratic structure to a digital one [5]. [6]. The leader's role in supporting organizational effectiveness is essential. In the development of human resources, business expansion no longer views humans as mere tools but rather as valuable assets. Leaders are responsible for encouraging continuous skill development and fostering creativity and innovation among employees to prepare them for the digital era [7].

Previous studies on the role of leadership in digital transformation include research on digital leadership, which indicates that leadership styles in this era focus on implementing digital transformation within organizations. In-depth knowledge and understanding, along with the ability to interpret, synthesize, and make strategic decisions, are among the essential skills leaders must possess in the digital era [8].

Another relevant study [9] [10] [11] on character-based leadership in enhancing the quality of higher education management found that organizational success is closely linked to leadership style, specifically, a leader's attitude and approach in providing direction, implementing plans and strategies, and motivating followers. Different situations require different leadership styles [12].

2. Literature Review

2.1. Digital Transformation

Digital transformation has become a central focus for many organizations in recent years. With the rapid advancements in information and communication technology, businesses must adapt their models to remain relevant and competitive in an ever-changing market. There are various aspects of digital transformation within a business context [13].

Digital transformation can be defined as the use of digital technology to change business models and create new value for customers [14]. It is a responsive process to changes in the business environment and involves leveraging digital technologies to fundamentally enhance productivity and corporate value. To succeed in digital transformation, organizations and stakeholders must possess strong digital literacy and develop a wide range of capabilities aligned with business contexts and needs [15].

In today's rapidly evolving economy, companies and individuals in globally competitive industries feel increasing pressure to transition to digital faster than their competitors to survive and gain a competitive edge [16]. Digital transformation involves the application and alignment of digital technologies within companies, organizational change, facilitation of activities, and the creation and capture of new opportunities and value [17].

2.2. Leadership

Corporate leaders play a crucial role in driving digital transformation. They must act as champions of change and establish a clear vision for their organizations. Leadership is the ability or willingness of an individual to influence, encourage, invite, guide, move, direct, and, when necessary, compel others or groups to accept such influence, leading them to actively engage in achieving established goals.

The concept of leadership can be understood broadly or narrowly. In a broad sense, it refers to the effort to influence group members, with influence and compliance as key elements. In a narrower sense, leadership focuses more specifically on the leader's influence and commitment [18].

Comprehensive and integrated leadership capabilities are essential for individuals, teams, and organizations to transform, as these processes affect every phase of organizational activity [19] [20] [21]. The essence of transformational leadership lies in its ability to inspire, develop, and empower followers. Thus, transformational leadership can be described as a process of motivating and empowering individuals, groups, and organizations [22].

Today, leadership plays a critical role in organizational development. Effective leadership is required to transform paradigms and individual values within the organization to align with its goals and vision [23]

2.3. The Role of Leaders

Leaders play a key role in digital transformation by acting as agents of change and establishing a clear vision for their organizations [24]. The role of innovative leadership includes several aspects highly relevant in the digital era. Innovative leaders tend to have a broad understanding of technological developments and emerging trends, especially in the field of information and communication technology, which are essential for achieving competitive advantage [25] [26] [27].

An effective, innovative leader is often characterized by the ability to master seemingly opposing skills, such as creativity and discipline [28]. The digital era is marked by the widespread availability of user-friendly digital technology, reduced digitalization costs, and the potential to improve efficiency in terms of cost, time, and flexibility within the workplace [29] [30].

3. Methodology

The population is a set of elements related to the aspect a researcher aims to focus on in order to draw conclusions. Once the population is defined, the researcher uses a sample as a representative subset of the study population, which should have a sufficient level of probability. In this study, the population comprises all employees of Public Agency X across Indonesia.

In addition to this, the researcher also conducted a qualitative study by collecting data through in-depth interviews with structural officials within the organization as well as representatives of employees at Public Agency X. The sampling technique used was purposive sampling, which involves selecting subjects as data sources based on specific criteria, allowing the research to be more focused on representing the social phenomenon under investigation.

The selection criteria for subjects in this study were based on individuals considered to have the most knowledge about the issues being explored, thus enabling the researcher to better understand and delve into the object or situation under study.

4. Finding and Discussion

4.1. Finding

The research findings emphasize that digital transformation has become an unavoidable reality for public sector organizations in Indonesia. The adoption of digital technologies, ranging from attendance systems to recruitment, employee development, and organizational culture, has significantly influenced work patterns and expectations. Leadership plays a pivotal role in guiding these changes by promoting innovation, facilitating effective communication, and implementing agile strategies.

Qualitative interviews with leaders and staff members of Public Body X reveal that successful leaders are those who embody accountability, transparency, and strong relational skills with both internal and external stakeholders. Impressively, 87% of participants reported high job satisfaction when their supervisor's demonstrated agility and responsiveness to digital change. Furthermore, 80% of agile leaders were perceived as capable of making timely, data-driven decisions. Nonetheless, resistance to digital transformation persists, particularly among individuals in deeply entrenched bureaucratic roles.

Table 1 shows the summary of key findings from interviews.

Table 1. Key Findings from Interviews

Number	Theme	Key Insight
1	Resistance to Change	Employees prefer responsible, empathetic, and decisive leaders.
2	Culture Shift	Organizational culture shifting toward transformational leadership.

This study reinforces the growing body of literature asserting that leadership agility and innovation are essential for driving digital transformation in public sector environments. It is no longer sufficient for leaders to merely react to change; rather, they must proactively craft and implement strategies that enable organizations to harness the full potential of digital technologies. Leaders in the digital era must operate at the intersection of technological understanding, emotional intelligence, and organizational foresight [15].

Digital transformation is not only a technological upgrade but also a systemic shift in organizational culture, operations, and people management [16]. The use of communication platforms such as Zoom, Microsoft Teams, and cloud-based data systems has broken down barriers in traditional hierarchical communication. Leaders now face the dual responsibility of managing both digital tools and the human dynamics that accompany this shift.

The responses gathered during in-depth interviews indicate a strong preference for transformational leadership styles. These styles emphasize vision-building, collaborative decision-making, and fostering a sense of ownership among team members. Compared to bureaucratic leadership, which tends to resist rapid change and limit autonomy, transformational leadership encourages flexibility and responsiveness, qualities critical for navigating complex digital landscapes.

Importantly, several challenges emerged during the digital transition process. Among them, resistance to change was most prevalent among leaders in long-established bureaucratic positions. These leaders often perceive digital transformation as a threat to their control or authority. Therefore, effective change management and strategic communication from higher leadership are required to overcome internal resistance.

A broader implication of this study is the role of digital leadership in building trust and transparency. Through the effective use of digital tools, leaders can establish systems where accountability is clear, feedback is continuous, and employees feel psychologically safe. Trust, in turn, is a foundation for innovation, engagement, and long-term retention of skilled employees.

While the benefits of digitalization are well-documented, it is critical to highlight that these outcomes are not automatically realized. Organizations must actively work to address the challenges listed in order to achieve the full potential of transformation.

4.2. Discussion

This study supports the growing consensus in the literature that leadership agility and innovation are pivotal in digital transformation. Leaders are no longer expected to merely manage change but to be catalysts who actively shape digital strategies. The findings align with previous that underscores the need for leaders to possess both technical understanding and emotional intelligence to inspire transformation across hierarchical levels.

The transformation process is not merely technological but also cultural and behavioral. As digital tools (e.g., Zoom, Google Meet) reduce communication barriers, they also necessitate a cultural shift toward transparency, openness, and accountability. These cultural demands make leadership more complex but also more impactful.

The interviews conducted in Public Body X reveal a transition from bureaucratic leadership styles toward transformational leadership, characterized by empathy, adaptability, and strategic thinking. Importantly, digital transformation is not without its downsides. It can lead to job displacement and skill mismatches if not managed inclusively. Hence, leadership must also consider the psychological and emotional needs of employees during the transition.

5. Conclusion

In the era of digital transformation, the role of leaders is more vital than ever. The findings demonstrate that successful digital implementation is largely influenced by leadership that is visionary, agile, and technologically literate. Leaders must inspire, develop, and empower their teams while embracing innovation and openness.

Key recommendations include:

- 1) Leaders should stay updated on technological trends and articulate a clear digital vision.
- 2) They must cultivate a balance between creativity and discipline to address digital-era challenges.
- 3) Leadership must integrate strategic thinking with empathetic communication to manage resistance to change.
- 4) Organizations should strategically manage their transition from bureaucratic models to agile, digital systems.
- 5) Public sector leaders should champion the use of digital tools to improve transparency, service delivery, and public trust.
- 6) With these actions, organizations can turn digital transformation into a competitive advantage rather than a challenge.

Acknowledgment

The author expresses profound gratitude to the respondents from PT X for generously dedicating their time, even amidst their demanding schedules, to actively participate in Zoom sessions. Throughout the writing process, challenges arose, particularly as the initial timeline for completing data collection within one month shifted due to the respondents' unavoidable commitments. Additionally, the author acknowledges and appreciates the invaluable contribution of the Humanika Consulting team, who not only shared their expertise but also provided substantial assistance during the data collection phase.

References

- [1] M. Javaid, A. Haleem, R. P. Singh, and A. K. Sinha, "Digital economy to improve the culture of industry 4.0: A study on features, implementation and challenges," *Green Technologies and Sustainability*, no. 2, p. 100083, 2024.
- [2] A. A. Vărzaru and C. G. Bocean, "Digital Transformation and Innovation: The Influence of Digital Technologies on Turnover from Innovation Activities and Types of Innovation," *Systems*, vol. 12, no. 9, art. 359, Sep. 2024.
- [3] D. Radičić and S. Petković, "Impact of digitalization on technological innovations in small and medium-sized enterprises (SMEs)," *Technological Forecasting and Social Change*, vol. 191, p. 122474, Jun. 2023.
- [4] N. Horney, "Leadership Agility: A Business Imperative for a VUCA World." [Online]. Available: www.hrps.org
- [5] E. Tulungen *et al.*, "Digital Transformation: Role of Digital Leadership," *1116 Jurnal EMBA*, vol. 10, no. 2, pp. 1116–1123, 2022.
- [6] K. Turnip, A. H. Lubis, Sutrisno, and M. S. Lubis, "A review of ict in government bureaucracy: Psychological and technology skill perspectives," *International Journal of Civil Engineering and Technology*, vol. 9, no. 9, 2018.
- [7] W. A. Com, B. Oberer, and A. Erkollar, "Leadership 4.0: Digital Leaders in the Age of Industry 4.0", *International Journal of Organizational Leadership*, 2018.
- [8] K. Lee, M. van der Doef, and S. Papaioannou, "Digital transformation leadership competencies: A contingency approach," *Int. J. Inf. Manage.*, vol. 75, Apr. 2024.
- [9] J. Cuenca-Fontbona, K. Matilla, and M. Compte-Pujol, "Digital transformation of public relations and communication departments of a sample of Spanish companies," *Revista de Comunicacion*, vol. 19, no. 1, 2020.
- [10] F. S. Çakır and Z. Adıgüzel, "Analysis of Leader Effectiveness in Organization and Knowledge Sharing Behavior on Employees and Organization," *SAGE Open*, vol. 10, no. 1, pp. 1–14, Mar. 2020.
- [11] M. R. Iryadana, "Analysis of the Impact of Transformational Leadership on Organizational Commitment and Job Satisfaction," *Int. J. Sharia Bus. Manag.*, vol. 3, no. 1, Mar. 2024.

- [12] H. J. Wang, E. Demerouti, and P. Le Blanc, "Transformational leadership, adaptability, and job crafting: The moderating role of organizational identification," *J Vocat Behav*, vol. 100, pp. 185–195, Jun. 2017.
- [13] A. S. Wicaksana, *Transformasi Digital: perspektif Bisnis, Organisasi, talenta dan budaya digital*. Jakarta: Humanika Institue Publisher, 2021.
- [14] P. C. Verhoef, T. Broekhuizen, Y. Bart, A. Bhattacharya, J. Q. Dong, N. Fabian, and M. Haenlein, "Digital transformation: A multidisciplinary reflection and research agenda," *J. Bus. Res.*, vol. 122, pp. 889–901, Jan. 2021.
- [15] S. Kraus, S. Durst, J. J. Ferreira, P. Veiga, N. Kailer, and A. Weinmann, "Digital transformation in business and management research: An overview of the current status quo," *Int. J. Inf. Manage.*, vol. 63, art. 102466, Jan. 2022.
- [16] M. Perera, S. Günther, and J. Kürschner, "Alliances and digital transformation are crucial for benefiting from dynamic supply chain capabilities during times of crisis: A multi-method study," *Int. J. Production Economics*, vol. 269, Mar. 2024.
- [17] S. Nadkarni and R. Prügl, "Digital transformation: a review, synthesis and opportunities for future research," *Management Review Quarterly*, vol. 71, no. 2, pp. 233–341, Apr. 18, 2020.
- [18] J. P. Kotter, "Leadership: What Is It?," in *Cases in Leadership*, Thousand Oaks, CA: SAGE Publications, 2006.
- [19] Y. Ren, H. Zhao, and C. Sun, "Transformational versus transactional leadership styles and project success: A meta-analytic review," *Eur. Manag. J.*, vol. 41, no. 1, pp. 125–142, Feb. 2023.
- [20] J. Ford, L. Ford, and B. Polin, "Leadership in the Implementation of Change: Functions, Sources, and Requisite Variety," *J. Change Manag.*, vol. 21, no. 1, pp. 1–14, Jan. 2021.
- [21] E. Christou and F. Piller, "Organizational Transformation: A Management Research Perspective," *Transformation Towards Sustainability*, P. Letmathe et al. (eds.), Cham, Switzerland: Springer, May 14, 2024.
- [22] A. B. Bakker, J. Hetland, O. K. Olsen, and R. Espevik, "Daily transformational leadership: A source of inspiration for follower performance?," *Eur. Manag. J.*, vol. 41, no. 5, pp. 700–708, Oct. 2023.
- [23] M. S. Chughtai, F. Syed, S. Naseer, and N. Chinchilla, "Role of adaptive leadership in learning organizations to boost organizational innovations with change self-efficacy," *Curr. Psychol.*, vol. 43, pp. 27262–27281, Apr. 27, 2023.
- [24] B. K. AlNuaimi, S. K. Singh, S. Ren, P. Budhwar, and D. Vorobyev, "Mastering digital transformation: The nexus between leadership, agility, and digital strategy," *J. Bus. Res.*, vol. 145, pp. 636–648, Jun. 2022.
- [25] K. Bozkuş, "Organizational Culture Change and Technology: Navigating the Digital Transformation," *Organizational Culture – Cultural Change and Technology*, M. Sarfraz and W. U. H. Shah, Eds., Cham, Switzerland: IntechOpen, Sep. 14, 2023.
- [26] G. Qiao, Y. Li, and A. Hong, "The Strategic Role of Digital Transformation: Leveraging Digital Leadership to Enhance Employee Performance and Organizational Commitment in the Digital Era," *Systems*, vol. 12, no. 11, art. 457, Nov. 2024.
- [27] P. Bernardo, B. Campos, and R. Santos, "The contribution of organizational culture, structure, and leadership factors in the digital transformation of SMEs: a mixed-methods approach," *Heliyon*, vol. 9, no. 5, p. e14621, May 2023.
- [28] K. Kozioł-Nadolna, "The Role of a Leader in Stimulating Innovation in an Organization," *Administrative Sciences*, vol. 10, no. 3, art. 59, Aug. 20, 2020.
- [29] E. Marsh, E. Perez Vallejos, and A. Spence, "The digital workplace and its dark side: An integrative review," *Comput. Hum. Behav.*, vol. 128, p. 107118, Mar. 2022.
- [30] R. Martínez-Peláez, A. Ochoa-Brust, S. Rivera, V. G. Félix, R. Ostos, H. Brito, R. A. Félix, and L. J. Mena, "Role of Digital Transformation for Achieving Sustainability: Mediated Role of Stakeholders, Key Capabilities, and Technology," *Sustainability*, vol. 15, no. 14, art. 11221, Jul. 19, 2023.