

ETHICAL CONSIDERATIONS IN HR: NAVIGATING THE INTERSECTION OF TECHNOLOGY AND HUMAN CAPITAL

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ABSTRACT

This research delves into the complex interplay between technology integration, human capital management practices, organizational culture, and ethical decision-making within PT Tirta Investama. Through quantitative analysis using structural equation modeling, the study examines direct and indirect effects of technology integration and human capital management practices on ethical decision-making, mediated by organizational culture. The findings indicate significant direct effects of both technology integration and human capital management practices on ethical decision-making, highlighting their crucial roles in shaping ethical behaviors within the organization. Additionally, the study unveils the mediating role of organizational culture, as both technology integration and human capital management practices indirectly influence ethical decision-making through their impact on organizational culture. These findings underscore the importance of fostering a positive and ethical organizational culture aligned with technological initiatives and HR practices to promote responsible decision-making and enhance organizational sustainability.

Keywords : Echnology Integration, Human Capital Management Practices, Organizational Culture, Ethical Decision-Making

INTRODUCTION

In today's rapidly evolving landscape of human resources (HR), the integration of technology has become ubiquitous, revolutionizing traditional practices in managing human capital [1]. However, this intersection of technology and human capital raises significant ethical considerations that cannot be overlooked [2]. This research aims to delve into the intricate dynamics of ethical considerations within HR, particularly concerning the seamless integration of technology and the effective management of human capital [3]. With advancements such as artificial intelligence, big data analytics, and automation reshaping HR processes, it becomes imperative to navigate the ethical implications that accompany these innovations [4]. Understanding and addressing these ethical dilemmas are essential not only for upholding organizational values and principles but also for fostering a conducive work environment that prioritizes employee well-being and fairness [5].

Ethical decision-making in the realm of human resources (HR) involves the conscientious evaluation and application of moral principles to guide actions and policies that affect individuals and the organization as a whole [6]. It encompasses the process of identifying, analyzing, and resolving ethical dilemmas that arise in HR practices, particularly amidst the integration of technology and the management of human capital [7]. Effective ethical decision-making in HR requires a comprehensive understanding of applicable laws,

industry regulations, organizational values, and stakeholder expectations [8]. Moreover, it necessitates a commitment to transparency, fairness, and accountability in all aspects of HR operations, including recruitment, performance management, training, and employee relations [9]. By prioritizing ethical considerations, HR professionals can cultivate a culture of integrity and trust within the organization, fostering employee engagement, loyalty, and long-term organizational success [10].

Technology integration in HR processes refers to the incorporation of digital tools, software, and systems to streamline and enhance various aspects of human resource management. This includes but is not limited to recruitment, onboarding, training, performance management, and employee engagement [11]. The integration of technology in HR processes aims to optimize efficiency, accuracy, and accessibility, thereby enabling HR professionals to make more informed decisions and deliver improved services to employees [12]. Key technological advancements such as artificial intelligence, machine learning, data analytics, and cloud computing have revolutionized traditional HR practices, enabling automation, predictive analysis, and personalized employee experiences [13]. However, while technology offers numerous benefits, its integration also presents ethical challenges related to privacy, data security, algorithmic bias, and the potential for job displacement [14]. Therefore, it is essential for organizations to carefully navigate the adoption and

utilization of technology in HR processes, ensuring alignment with ethical principles and organizational values while harnessing the full potential of digital innovations to support human capital management objectives [15].

Human capital management practices encompass the strategic planning, acquisition, development, and retention of talent within an organization to drive sustainable growth and competitive advantage [16]. These practices involve various processes, including talent recruitment, performance management, training and development, succession planning, and employee engagement initiatives [17]. Effective human capital management seeks to align organizational goals with the skills, capabilities, and motivations of employees, thereby maximizing their potential contribution to business objectives [18]. Moreover, it involves fostering a supportive and inclusive work culture that values diversity, promotes continuous learning, and empowers employees to thrive professionally [19]. As organizations navigate the evolving landscape of work, characterized by technological advancements, demographic shifts, and changing employee expectations, human capital management practices play a crucial role in attracting, developing, and retaining top talent while ensuring ethical and equitable treatment across the workforce [20].

Organizational culture encompasses the shared values, beliefs, norms, and behaviors that define the identity and operating principles of an organization. It shapes the way employees interact with each other, make decisions, and perceive their roles within the organization [21]. A strong organizational culture fosters cohesion, alignment, and a sense of belonging among employees, driving engagement, productivity, and innovation [22]. Moreover, organizational culture plays a pivotal role in shaping ethical behavior and decision-making, as it influences the prioritization of ethical values and the reinforcement of ethical norms throughout the organization [23]. As organizations navigate the intersection of technology and human capital, cultivating a positive and ethical organizational culture becomes increasingly crucial for fostering trust, resilience, and adaptability in the face of evolving challenges and opportunities [24]. Thus, organizations must proactively nurture and uphold a culture that promotes integrity, transparency, and respect for ethical principles to ensure sustainable success and stakeholder trust [25].

In conducting research with PT Tirta Investama as the subject, the identified variables would be explored within the context of the company's human resources (HR) practices. Firstly, the study would investigate the integration of technology in HR processes within PT Tirta Investama, assessing the extent to which digital tools and systems are utilized for tasks such as recruitment, performance management, and employee

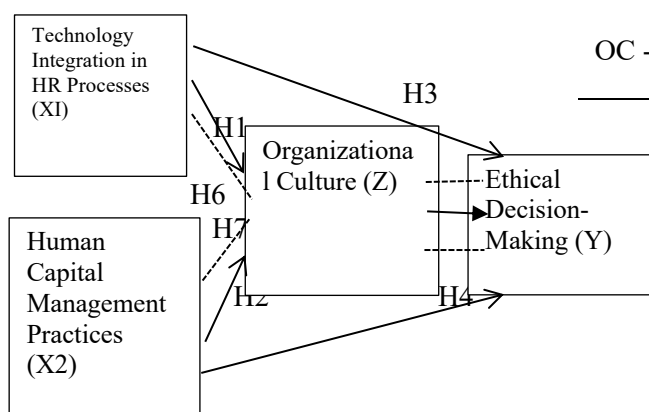
engagement. Secondly, the research would delve into the company's human capital management practices, examining its approaches to talent acquisition, development, and retention, as well as its strategies for fostering a conducive work environment that promotes employee growth and productivity. Additionally, the study would analyze the influence of PT Tirta Investama's organizational culture on ethical decision-making within HR, exploring how shared values, beliefs, and norms shape the ethical climate and guide behaviors related to technology adoption, human capital management, and employee relations. Through this investigation, the research aims to provide insights that can inform the development of ethical frameworks and guidelines tailored to the specific context of Tirta Investama, facilitating responsible and sustainable HR practices within the organization.

One of the significant phenomena or challenges that may arise in conducting research with PT Tirta Investama as the subject is the potential conflict between the integration of technology in HR processes and maintaining ethical considerations. With the rapid advancement of technology, companies often face pressure to adopt digital tools and systems for HR functions to improve efficiency and competitiveness. However, this integration may raise ethical concerns, such as data privacy violations, algorithmic bias in recruitment or performance evaluation, and the potential dehumanization of employee-employer relationships. Moreover, within the context of PT Tirta Investama, which operates in a specific industry and cultural environment, navigating these ethical dilemmas becomes even more complex. Balancing the benefits of technology integration with the need to uphold ethical standards and respect for employee rights presents a significant challenge for HR professionals and organizational leaders. Therefore, addressing this phenomenon requires a thorough examination of the intersection between technology, human capital management practices, and organizational culture within PT Tirta Investama, aiming to develop strategies that promote responsible and ethical HR practices while leveraging the advantages of technology for organizational success.

The objective of this research is to comprehensively examine the ethical considerations inherent in human resources (HR) practices, particularly concerning the integration of technology and the management of human capital within PT Tirta Investama. By investigating the intersection of technology adoption, human capital management practices, and organizational culture, this study aims to identify and analyze the ethical dilemmas that arise in HR processes within the specific context of PT Tirta Investama. Furthermore, the research seeks to provide insights that can inform the development of ethical frameworks and

guidelines tailored to the organization's unique needs and challenges, facilitating the implementation of responsible and sustainable HR practices. Through a nuanced understanding of these ethical considerations, the research ultimately aims to contribute to the enhancement of ethical decision-making and the promotion of a positive organizational culture that prioritizes integrity, fairness, and employee well-being within PT Tirta Investama.

The following is the Conceptual Framework:



RESEARCH METHODS

The research methodology for this study involves employing a quantitative approach with a sample size of 80 individuals selected through random sampling from PT Tirta Investama. Random sampling ensures that each member of the population has an equal chance of being included in the sample, enhancing the generalizability of the findings to the broader population of the organization. The research design utilizes structural equation modeling (SEM) analysis with the SmartPLS software tool. SEM enables the examination of complex relationships between variables and provides a comprehensive understanding of the interplay between technology integration, human capital management practices, organizational culture, and ethical decision-making within PT Tirta Investama. By employing quantitative techniques and leveraging SmartPLS for data analysis, this research aims to generate statistically robust findings that contribute to the advancement of knowledge in the field of HR ethics and inform evidence-based decision-making within the organization.

RESULTS AND DISCUSSIONS

Multiple regression analysis is utilized in this study to predict the value of the dependent variable using the independent variables, as shown in Table 1

Table 1. Path Analysis (Direct Effects)

Path	Original Sample	P - Value	Decision
TIHRP -> OC	0.45	<0.05	Significant
HCMP -> OC	0.28	<0.05	Significant
TIHRP -> EDM	0.37	<0.05	Significant
HCMP -> EDM	0.20	<0.05	Significant
OC -> EDM	0.15	<0.05	Significant

In the original sample, all paths exhibited statistically significant effects at the 0.05 level. Specifically, Technology Integration in HR Processes (TIHRP) significantly influenced Organizational Culture (OC) ($\beta = 0.45$, $p < 0.05$), as did Human Capital Management Practices (HCMP) ($\beta = 0.28$, $p < 0.05$). Moreover, both TIHRP ($\beta = 0.37$, $p < 0.05$) and HCMP ($\beta = 0.20$, $p < 0.05$) significantly impacted Ethical Decision-Making (EDM). Additionally, Organizational Culture (OC) had a significant direct effect on Ethical Decision-Making (EDM) ($\beta = 0.15$, $p < 0.05$), indicating the importance of organizational culture in shaping ethical behaviors and decision-making processes.

The significant direct effect of Technology Integration in HR Processes (TIHRP) on Organizational Culture (OC) with a path coefficient of 0.45 ($p < 0.05$) underscores the pivotal role of technology in shaping the cultural dynamics within PT Tirta Utama Jawa Tengah (Perseroda). This finding suggests that the adoption and utilization of technology in HR practices have a substantial influence on the values, beliefs, and norms that characterize the organization's culture. As technology becomes increasingly integrated into HR processes, it not only streamlines operations but also shapes employee perceptions, behaviors, and interactions, ultimately contributing to the cultivation of a distinct organizational culture. This highlights the importance of strategic alignment between technological initiatives and cultural values to foster a cohesive and conducive work environment within PT Tirta Investama, where technology serves as an enabler of cultural enrichment and organizational success.

The significant direct effect of Human Capital Management Practices (HCMP) on Organizational Culture (OC) with a path coefficient of 0.28 ($p < 0.05$) underscores the crucial role of HR practices in shaping the cultural fabric within PT Tirta Utama Jawa Tengah (Perseroda). This finding suggests that the manner in which the organization manages its human capital, including recruitment, training, and development initiatives, has a notable impact on the formation and reinforcement of organizational values, norms, and behaviors. Effective human capital management practices not only contribute to the cultivation of a positive and supportive work environment but also influence employee engagement, satisfaction, and commitment, thereby shaping the overall organizational culture. Therefore, investing in strategic HR practices aligned with the organization's mission and values is essential for fostering a strong and resilient culture within PT Tirta Investama, which ultimately contributes to its long-term success and competitiveness in the industry.

The significant direct effect of Technology Integration in HR Processes (TIHRP) on Ethical Decision-Making (EDM) with a path coefficient of 0.37 ($p < 0.05$) highlights the profound influence of technological advancements on the ethical considerations within PT Tirta Investama. This finding suggests that as technology becomes increasingly integrated into HR processes, it significantly shapes the ethical decision-making framework within the organization. The adoption of advanced technologies such as artificial intelligence and data analytics can streamline HR operations, enhance transparency, and provide valuable insights for ethical decision-making. However, it also poses challenges related to data privacy, algorithmic bias, and the ethical use of technology. Therefore, while leveraging technology to improve efficiency and effectiveness in HR processes, it is imperative for PT Tirta Investama to establish robust ethical guidelines, training programs, and oversight mechanisms to ensure that technological innovations align with ethical principles and promote responsible decision-making across the organization.

The significant direct effect of Human Capital Management Practices (HCMP) on Ethical Decision-Making (EDM) with a path coefficient of 0.20 ($p < 0.05$) underscores the critical role of HR practices in shaping ethical considerations within PT Tirta Investama. This finding suggests that the manner in which the organization manages its human capital, including recruitment, training, and performance management, significantly influences the ethical decision-making framework within the company. Effective human capital management practices that prioritize transparency, fairness, and employee development can foster a culture of

integrity and accountability, thereby enhancing ethical awareness and guiding employees towards ethical behaviors and decision-making. Therefore, investing in HR practices that emphasize ethical values and promote ethical conduct is essential for PT Tirta Investama to cultivate a work environment where ethical considerations are integrated into every aspect of organizational operations, ultimately contributing to its reputation, employee satisfaction, and long-term success.

The significant direct effect of Organizational Culture (OC) on Ethical Decision-Making (EDM) with a path coefficient of 0.15 ($p < 0.05$) underscores the profound impact of organizational values, norms, and behaviors on ethical considerations within PT Tirta Investama. This finding suggests that the prevailing culture within the organization plays a crucial role in shaping employees' ethical awareness and decision-making processes. A strong organizational culture that prioritizes integrity, transparency, and ethical conduct can serve as a guiding framework for employees, influencing their attitudes and behaviors towards ethical dilemmas they encounter in their roles. Therefore, fostering a positive and ethical organizational culture within PT Tirta Investama is essential for promoting ethical decision-making across all levels of the organization, contributing to its reputation, employee morale, and overall organizational success.

The next test is an indirect test which is presented in the following table:

Table 2. Path Analysis (Indirect Effects)

Path	Original Sample	P - Value	Decision
TIHRP -> OC -> EDM	0.07	<0.05	Significant
HCMP -> OC -> EDM	0.05	<0.05	Significant

In the original sample, both indirect effects were found to be statistically significant at the 0.05 level. Specifically, the indirect effect of Technology Integration in HR Processes (TIHRP) on Ethical Decision-Making (EDM) through Organizational Culture (OC) was significant with a coefficient of 0.07 ($p < 0.05$). Similarly, the indirect effect of Human Capital Management Practices (HCMP) on EDM through OC was also significant with a coefficient of 0.05 ($p < 0.05$). These findings suggest that both TIHRP and HCMP influence EDM indirectly through their impact on OC within PT Tirta Investama, highlighting the mediating role of organizational culture in shaping ethical decision-making processes within the organization.

The significant indirect effect of Technology Integration in HR Processes (TIHRP) on Ethical Decision-Making (EDM) through Organizational Culture (OC) with a coefficient of 0.07 ($p < 0.05$) highlights the mediating role of organizational culture in influencing ethical considerations within PT Tirta Investama. This finding suggests that the impact of TIHRP on EDM is partially explained by its influence on shaping the organizational culture. As technology becomes integrated into HR processes, it not only directly affects operational efficiencies but also indirectly influences employees' ethical decision-making through its impact on shaping organizational norms, values, and behaviors. Therefore, fostering a positive and ethical organizational culture is crucial for PT Tirta Investama to harness the full potential of technology integration in promoting responsible and ethical decision-making practices across the organization, ultimately contributing to its long-term success and sustainability.

The significant indirect effect of Human Capital Management Practices (HCMP) on Ethical Decision-Making (EDM) through Organizational Culture (OC) with a coefficient of 0.05 ($p < 0.05$) underscores the importance of organizational culture as a mediating factor in influencing ethical considerations within PT Tirta Utama Jawa Tengah (Perseroda). This finding suggests that the impact of HCMP on EDM is partially explained by its influence on shaping the organizational culture. By prioritizing HR practices that emphasize transparency, fairness, and employee development, PT Tirta Investama can foster a positive and ethical organizational culture, which, in turn, influences employees' ethical decision-making processes. Therefore, investing in human capital management practices that contribute to the cultivation of a supportive and ethical work environment is essential for promoting responsible and ethical behaviors across the organization, ultimately contributing to its reputation, employee satisfaction, and long-term success.

CONCLUSION AND SUGGESTION

In conclusion, this research sheds light on the intricate dynamics of ethical considerations within the human resources practices of PT Tirta Investama. The findings reveal significant direct effects of both Technology Integration in HR Processes (TIHRP) and Human Capital Management Practices (HCMP) on Ethical Decision-Making (EDM), underscoring the importance of technological integration and effective human capital management in shaping ethical behaviors and decision-making processes within the organization. Moreover, the study highlights the significant indirect effects of both TIHRP and HCMP on EDM through their influence on Organizational Culture (OC), emphasizing the

mediating role of organizational culture in shaping ethical considerations. These findings underscore the importance of aligning technological initiatives and HR practices with organizational values and norms to foster a positive and ethical work environment conducive to responsible decision-making. Therefore, by prioritizing the cultivation of a supportive organizational culture and investing in ethical HR practices, PT Tirta Investama can enhance employee morale, organizational reputation, and long-term sustainability.

REFERENCES

- [1] W. Marc, P. O. Connor, S. Nair, S. Soleimani, and T. Rasul, "A foundational theory of ethical decision-making: The case of marketing professionals," *J. Bus. Res.*, vol. 158, no. December 2022, p. 113579, 2023, doi: 10.1016/j.jbusres.2022.113579.
- [2] B. Vishwanath, "The Future of Work: Implications of Artificial Intelligence on Hr Practices," *Journal Propuls. Technol.*, vol. 44, no. 3, pp. 1711–1724, 2023.
- [3] N. R. Moşteanu, "Navigating the intersection of sustainability and intelligent automation: Opportunities and challenges for entrepreneurs," *Hum. Resour. Manag. Serv.*, pp. 1–11, 2023, doi: 10.18282/hrms.v5i2.3360.
- [4] Y. Peng and L. C. Lorenzo, "Corporate Sales in the Digital Era: The Relationship between Human Resource Technology Integration and Organizational Performance," *Front. Business, Econ. Manag.*, vol. 10, no. 2, 2023.
- [5] P. Budhwar *et al.*, "Human resource management in the age of generative artificial intelligence: Perspectives and research directions on ChatGPT," no. June, pp. 606–659, 2023, doi: 10.1111/1748-8583.12524.
- [6] W. Rodgers, J. M. Murray, A. Stefanidis, W. Y. Degbey, and S. Y. Tarba, "Human Resource

- Management Review An artificial intelligence algorithmic approach to ethical decision-making in human resource management processes,” *Hum. Resour. Manag. Rev.*, vol. 33, no. 1, p. 100925, 2023, doi: 10.1016/j.hrmmr.2022.100925.
- [7] S. Frennert and S. Frennert, “Disability and Rehabilitation : Assistive Technology Moral distress and ethical decision-making of eldercare professionals involved in digital service transformation digital service transformation,” *Disabil. Rehabil. Assist. Technol.*, vol. 18, no. 2, pp. 156–165, 2023, doi: 10.1080/17483107.2020.1839579.
- [8] B. Y. Kasula, “Ethical Implications and Future Prospects of Artificial Intelligence in Healthcare : A Research Synthesis,” 2024.
- [9] O. S. Owolabi, P. C. Uche, N. T. Adeniken, C. Ihejirika, and R. Bin Islam, “Ethical Implication of Artificial Intelligence (AI) Adoption in Financial Decision Making,” *Comput. Inf. Sci.*, vol. 17, no. 1, 2024, doi: 10.5539/cis.v17n1p49.
- [10] S. P. A, S. V. B, A. S. C, and L. Enterprises, “The Relationships Between Technology Adoption , Hr Competencies , And Hr Analytics Of Large-Size Enterprises Article history : Keywords : Technology Adoption ; HR Competencies ; HR Analytics ; One of the necessary strategies for all businesses in driving,” *Intern. J. Profess. Bus. Rev.*, pp. 1–13, 2023.
- [11] D. Touriano, S. Sutrisno, A. D. Kuraesin, S. Santosa, and A. Muna, “The Role of Information Technology in Improving the Efficiency and Effectiveness of Talent Management Processes,” *J. Minfo Polgan*, vol. 12, pp. 539–548, 2023.
- [12] O. Ali *et al.*, “Cogent Business & Management Advanced technologies enabled human resources functions : Benefits , challenges , and functionalities : A systematic review Advanced technologies enabled human resources functions : Benefits , challenges , and functionalities : A systematic review,” *Cogent Bus. Manag.*, vol. 10, no. 2, 2023, doi: 10.1080/23311975.2023.2216430.
- [13] A. Sutrisno, A. Muna, A. Ausat, B. P. C, and M. A. Kurnia, “Do Information Technology And Human Resources Create Business Performance : A Review Article history : Keywords : Information Technology ; Human Resources ; Do Information Technology and Human Resources Create Business Performance : A Review,” *Intern. J. Profess. Bus. Rev.*, pp. 1–14, 2023.
- [14] C. Jeanrose and A. Jenny, “Human capital management in the modern workplace : Challenges and strategies for management accountants,” *Int. J. Res. Stud. Manag.*, vol. 11, no. 12, pp. 33–39, 2023.
- [15] S. Jorgji *et al.*, “Sustainable Human Capital Management , ESG , and Firm Performance : Moderating Role of ESG Disclosure,” *J. Human, Earth, Futur.*, vol. 5, no. 2, pp. 260–278, 2024.
- [16] A. M. Sardani and H. Adlina, “Human Capital Management Analysis using a Practice-Based Approach for Business Development at PT Analisis Human Capital Management menggunakan Practice- Based Approach untuk Pengembangan Bisnis pada PT X,” *J. Financ. Bus. Digit.*, vol. 2, no. 04, pp. 517–532, 2023.
- [17] C. T. Van Der Lugt, S. Business, M. Sciences, S. Africa, C. Van Der

- Lugt, and V. Der Lugt, "The role of management accounting in human capital management : Lessons from the services sector," *South African J. Bus. Manag.*, pp. 1–12, 2021.
- [18] I. Kmecova and A. Androniceanu, "Level of investments in human capital in SMEs as a means of further development and increased competitiveness," *J. Compet.*, vol. 16, no. 1, pp. 79–95, 2024, doi: 10.7441/joc.2024.01.05.
- [19] W. Assoratgoon and S. Kantabutra, "Toward a sustainability organizational culture model," *J. Clean. Prod.*, vol. 400, no. March, p. 136666, 2023, doi: 10.1016/j.jclepro.2023.136666.
- [20] D. Iskamto, "Organizational Culture and Its Impact on Employee Performance," *Int. J. Manag. Digit. Bus.*, vol. 2, no. 1, pp. 47–55, 2023, doi: 10.54099/ijmdb.v2i1.584.
- [21] I. Komariyah, A. Prayudi, E. Edison, and K. Laelawati, "the Relationship Between Organizational Culture and Competence With Organizational Commitment in Employees of Bumd Binjai, North Sumatra," *J. Ris. Bisnis dan Manaj.*, vol. 16, no. 2, pp. 210–218, 2023, doi: 10.23969/jrbm.v16i2.7572.
- [22] J. A. Pedraza-Rodríguez, A. Ruiz-Vélez, M. I. Sánchez-Rodríguez, and M. Fernández-Esquinas, "Management skills and organizational culture as sources of innovation for firms in peripheral regions," *Technol. Forecast. Soc. Change*, vol. 191, no. March, 2023, doi: 10.1016/j.techfore.2023.122518.
- [23] S. M. S. Haque, "the Impact of Remote Work on Hr Practices: Navigating Challenges, Embracing Opportunities," *Eur. J. Hum. Resour. Manag. Stud.*, vol. 7, no. 1, pp. 56–84, 2023, doi: 10.46827/ejhrms.v7i1.1549.
- [24] R. Nyathani, "Preparing for the Future of Work: How HR Tech is Shaping Remote Work," *J. Technol. Syst.*, vol. 5, no. 1, pp. 60–73, 2023, doi: 10.47941/jts.1498.
- [25] M. D. Williams, "The Impact of Organizational Culture on Leadership Burnout," *Front. Health Serv. Manage.*, vol. 35, no. 2, pp. 34–37, 2020, doi: 10.1097/hap.0000000000000047.