

From Adoption to Action: How Organizational Culture Channels Technology into Employee Performance

Waiphot Kulachai^{1,*}, Patipol Homyamyen², Khwanta Benchakhan³

^{1,3} College of Politics and Government, Suan Sunandha Rajabhat University, Bangkok, Thailand

² Faculty of Business Administration and Information Technology, Rajamangala University of Technology Suvarnabhumi, Suphanburi, Thailand

*Corresponding author. Email: waiphot.ku@ssru.ac.th

ABSTRACT

This study examined the influence of Technology Adoption, Leadership Support, Communication Effectiveness, and Organizational Culture on Employee Performance using a quantitative approach. Data were collected from 157 employees across various industries through a structured online questionnaire, with all constructs measured using validated Likert-scale items. Multiple regression analysis conducted via JASP revealed that Technology Adoption, Communication Effectiveness, and Organizational Culture significantly and positively predicted Employee Performance, whereas Leadership Support showed no statistically significant effect. The model explained a substantial portion of variance in employee outcomes, underscoring the importance of digital tools, clear communication, and a supportive organizational culture in enhancing performance. These findings offer valuable insights for organizations aiming to optimize employee output through strategic investments in systems and culture.

Keywords: Communication effectiveness, Digital workplace, Employee performance, JASP software, Leadership support

1. INTRODUCTION

In today's dynamic organizational landscape, the integration of technology has become a pivotal factor influencing operational efficiency and competitive advantage. The widespread adoption of digital tools has reshaped traditional work environments, requiring a re-examination of the organizational factors that drive employee performance (Florea & Croitoru, 2025). Among these, technology adoption, leadership support, communication effectiveness, and organizational culture are increasingly recognized as key determinants. Understanding how these factors interact is essential for enhancing performance in a digitally enabled workplace. Technology adoption refers to the organization's ability to implement and utilize technological innovations to improve processes, collaboration, and productivity. When aligned with employee needs and organizational goals, it has been shown to significantly enhance performance outcomes (Vidhya & Latha, 2025). However, successful adoption depends not just on access to technology but also on organizational readiness, employee competence, and managerial support. Leadership support plays a crucial role in facilitating change and motivating employees. Effective leaders articulate a clear vision, offer resources, and foster a supportive climate that encourages performance (Kurniawan et al., 2025). In contrast, weak leadership often results in low morale, unclear expectations, and resistance to innovation. Research indicates that leadership style directly impacts employee engagement and performance, particularly in environments undergoing technological transformation (Vidhya & Latha, 2025). Communication effectiveness is another foundational element that underpins successful organizational functioning. When communication is clear, timely, and bi-directional, it facilitates knowledge sharing, aligns team efforts, and reduces misunderstandings. In digitally mediated workplaces, the efficiency of communication technologies directly influences how well employees understand expectations and engage with their work (Florea & Croitoru, 2025). AI-enhanced tools, such as natural language processing and sentiment analysis, are increasingly being used to personalize communication and improve decision-making processes (Patil et al., 2025). Organizational culture—defined by the shared values, beliefs, and norms within a workplace—also plays a significant role in shaping performance. A culture that encourages innovation, transparency, and adaptability creates an environment where employees are more likely to embrace change and engage in high-performance behaviours. Studies have shown that organizational culture can moderate the impact of other variables such as motivation and competence on performance outcomes (Arsani et al., 2025). Employee performance, often conceptualized as the effectiveness and efficiency with which individuals fulfil their roles, is a critical indicator of organizational success. It is influenced by both internal factors (e.g., skills, motivation) and external factors (e.g.,

leadership, organizational systems). In the current study, performance is examined as a function of how well the organization supports employees through technology, leadership, communication, and culture.

While previous studies have investigated individual factors such as technology adoption or leadership style in isolation (Kurniawan et al., 2025; Vidhya & Latha, 2025), there is a limited body of research that simultaneously examines the combined influence of these variables using a robust multivariate approach. Most existing studies focus on either leadership and performance or technology and culture, without exploring their interdependent effects on employee outcomes. For example, Arsani et al. (2025) emphasized the role of organizational culture as a moderating variable but did not integrate communication effectiveness or leadership support into the model. Similarly, Florea and Croitoru (2025) concentrated on AI-driven communication dynamics but overlooked the mediating or interacting roles of organizational culture and leadership support. Moreover, few studies have applied a standardized statistical framework, such as multiple regression analysis using JASP software, to quantify the distinct and shared contributions of each variable to employee performance. This lack of methodological integration limits the ability to draw actionable insights across organizational contexts. The existing literature also tends to focus on specific sectors or regional samples, which may constrain generalizability.

This study addresses these gaps by incorporating a comprehensive model that examines technology adoption, leadership support, communication effectiveness, and organizational culture simultaneously as predictors of employee performance. Using a data-driven approach grounded in multiple regression analysis, it aims to identify which factors exert the strongest influence, thereby contributing both theoretically and practically to the field of organizational behaviour. The findings of this study hold practical significance for HR practitioners, organizational leaders, and policymakers. By identifying which variables most strongly predict performance, organizations can allocate resources more effectively—whether by investing in leadership training, enhancing digital communication platforms, or cultivating an adaptive organizational culture. As organizations navigate the complexities of digital transformation, such data-driven strategies are vital to sustaining productivity and competitive advantage.

2. LITERATURE REVIEW

2.1 Theoretical Framework

This study integrates four foundational theories to explain how organizational factors shape employee performance: the Technology Acceptance Model (TAM), Transformational Leadership Theory, Organizational Support Theory, and Schein's Model of Organizational Culture. The TAM (Davis, 1989) and its extension, UTAUT (Venkatesh et al., 2003), emphasize that perceived usefulness and ease of use drive technology adoption, which in turn enhances employee efficiency and collaboration. Transformational Leadership Theory (Bass & Avolio, 1994) highlights the role of visionary and supportive leaders in motivating employees and aligning their efforts with organizational goals, especially during periods of technological change. Organizational Support Theory (Eisenberger et al., 1986) suggests that when employees feel valued and supported—through leadership and effective communication—they respond with greater engagement and performance. Schein's Organizational Culture Model (2010) further explains how shared values and norms influence behaviours, with cultures promoting innovation, openness, and trust fostering high-performing work environments. Collectively, these theories offer a multidimensional framework for examining how technology, leadership, communication, and culture interact to drive employee performance in today's digitally transforming organizations.

2.2 Technology Adoption and Employee Performance

Technology adoption has become a critical enabler of organizational success in the digital age, influencing not only operational processes but also individual employee outcomes. Empirical research consistently supports the notion that effective integration of digital tools enhances employee efficiency, responsiveness, and overall performance. When employees perceive that technology supports their tasks—by improving access to information, streamlining collaboration, and automating routine functions—they are more likely to engage meaningfully with their work (Vidhya & Latha, 2025). Furthermore, the adoption of advanced technologies such as artificial intelligence, machine learning, and real-time analytics enables more informed decision-making and facilitates adaptive work behaviours. Florea and Croitoru (2025) emphasize that AI-driven communication tools can significantly improve performance by reducing information loss, enhancing clarity, and supporting faster feedback loops. These tools also promote inclusivity and reduce hierarchical communication barriers, empowering employees at all levels to contribute effectively. However, it is essential to recognize that the mere presence of technology does not automatically translate into performance gains. Without adequate training, user-friendly interfaces, and alignment with organizational processes, technology can become a source of stress and resistance. Therefore, technology adoption must be part of a

broader organizational strategy that includes leadership commitment, technical support, and a learning-oriented culture. This ensures that digital tools are not just implemented, but fully embraced and leveraged to enhance job performance. The effectiveness of technology in boosting performance is ultimately dependent on how well it integrates with employees' tasks, goals, and competencies.

H1: Technology adoption has a positive and significant effect on employee performance.

2.3 Leadership Support and Employee Performance

Leadership support remains a central pillar of effective human resource management and is closely tied to organizational success. In increasingly digital and complex work environments, employees rely on their leaders for clarity, direction, and reassurance. Leaders who demonstrate accessibility, provide constructive feedback, and facilitate decision-making cultivate trust and motivation among team members (Kurniawan et al., 2025). Such support is particularly critical during periods of change, including technology implementation or process redesign. Employees often experience uncertainty in these scenarios, and the presence of a supportive leader can buffer against stress, foster resilience, and maintain focus on performance goals. Moreover, transformational leadership—which emphasizes vision, intellectual stimulation, and individualized support—has been consistently linked to increased employee engagement and performance outcomes. In the context of digital transformation, Vidhya and Latha (2025) highlight that leaders must not only advocate for new technologies but also inspire employees to adopt and adapt to these innovations. However, some studies caution that leadership effectiveness may be contingent on organizational context. For example, if communication channels are weak or the culture does not support innovation, leadership influence on performance may be diminished. Therefore, leadership support should be seen as a synergistic factor that operates most effectively in alignment with other organizational systems.

H2: Leadership support positively influences employee performance.

2.4 Communication Effectiveness and Employee Performance

Communication is the backbone of organizational coordination and a critical determinant of employee performance. Effective communication ensures that employees understand expectations, are informed about organizational changes, and feel heard. According to Florea and Croitoru (2025), specific communication dimensions—such as clarity, message acceptance, feedback mechanisms, and responsiveness—have significant predictive power over employee behaviour and performance outcomes. When employees receive timely, accurate, and actionable information, they are more likely to make informed decisions, avoid errors, and contribute constructively to team efforts. Modern organizations increasingly rely on digital communication platforms, which introduce both opportunities and challenges. On one hand, tools powered by artificial intelligence (AI), such as chatbots, sentiment analysis, and natural language processing, enhance message delivery and enable more personalized communication (Patil et al., 2025). These technologies also facilitate asynchronous communication, cross-functional collaboration, and continuous feedback loops—all of which contribute to higher productivity and engagement. On the other hand, over-reliance on digital tools without clear protocols can lead to information overload, misinterpretation, or disengagement. Communication effectiveness, therefore, is not only about the availability of tools but also how well they are integrated into organizational routines. Organizations must foster a communication culture that values openness, feedback, and responsiveness to create a high-performance environment.

H3: Communication effectiveness positively influences employee performance.

2.5 Organizational Culture and Employee Performance

Organizational culture—defined by shared values, norms, and behavioural expectations—plays a foundational role in shaping employee performance. A strong, adaptive culture that promotes innovation, trust, collaboration, and employee autonomy fosters conditions that enhance motivation and engagement. Arsani et al. (2025) demonstrate that such a culture amplifies the positive effects of other performance drivers, including leadership support and communication systems. In contrast, cultures marked by rigid hierarchy, risk aversion, or low psychological safety tend to inhibit performance, even when other organizational elements are favourable. Culture not only affects day-to-day interactions but also guides how employees respond to new challenges, such as technological changes or restructuring. When employees feel that their values align with those of the organization, they are more likely to take initiative, embrace change, and contribute innovative ideas. Furthermore, culture influences how conflict is managed, how mistakes are handled, and whether feedback is encouraged—factors that directly and indirectly impact performance metrics. Importantly, organizational culture is not static; it evolves in response to leadership behaviour, strategic priorities, and environmental pressures. Leaders and managers play a key role in shaping and sustaining a

culture that supports high performance, particularly by modelling desired behaviours, rewarding innovation, and embedding cultural values into formal systems and processes.

H4: Organizational culture positively influences employee performance.

3. METHODS

3.1 Participants

This study collected data from a total of 157 employees working across a range of industries, utilizing an online survey to ensure broad accessibility and participation. The sample was composed of 98 male respondents (62.4%) and 59 female respondents (37.6%), reflecting a gender distribution skewed toward male participants. Age demographics revealed a diverse workforce, with the largest proportion of participants falling within the 35–44 age group (69 respondents, 43.9%), suggesting a mature working population likely possessing significant professional experience. The second largest age group was 25–34 years (49 respondents, 31.2%), indicating a substantial representation of early- to mid-career professionals. Employees aged 45–54 years comprised 19.7% of the sample (31 respondents), highlighting participation from individuals with advanced career tenure. Only 5 participants (3.2%) were aged above 50, and a small fraction (3 participants, 1.9%) were under the age of 25, representing the youngest working cohort. This demographic spread provided a comprehensive view of employee perceptions across generational groups, enhancing the generalizability and relevance of the study's findings.

3.2 Measures

This study employed a structured online questionnaire to assess five key constructs: Technology Adoption (TA), Leadership Support (LS), Communication Effectiveness (CE), Organizational Culture (OC), and Employee Performance (EP). Each construct was measured using a six-item, 5-point Likert scale (1 = Strongly Disagree to 5 = Strongly Agree), aimed at capturing participants' perceptions of their organizational environment and work experiences. Technology Adoption (TA) covered aspects such as access to digital tools, IT support, training adequacy, problem-solving capabilities, and the role of technology in enhancing efficiency and collaboration. A representative item was: "I can easily access the necessary tools and technology for my work," with the scale demonstrating excellent internal consistency (Cronbach's $\alpha = 0.957$). Leadership Support (LS) examined perceptions of clear communication, decision-making support, emotional encouragement, and developmental guidance from leaders. Sample statements included: "My leader communicates clearly and openly with employees" and "My leader listens to employee feedback before making important decisions." This scale showed high reliability, with a Cronbach's α of 0.964. Organizational Culture (OC) focused on collaborative teamwork, mutual trust, alignment with organizational vision, support for innovation, and psychological safety for open expression. Items such as "My organization promotes a culture of collaboration and teamwork" and "I can express my opinions openly without fear of repercussions" were included, yielding a Cronbach's α of 0.959. Communication Effectiveness (CE) assessed the clarity, accessibility, and efficiency of internal communication channels, especially through digital platforms. A typical item was: "I can easily access important organizational information," with the scale's reliability confirmed at 0.959. Employee Performance (EP) evaluated task efficiency, adaptability, creativity, collaboration, and continuous learning, with an example statement being: "I can complete tasks on time with high-quality results." This scale exhibited the highest internal consistency, with a Cronbach's α of 0.962. All constructs exceeded the recommended threshold of 0.70 for Cronbach's α , confirming strong internal reliability (Trifunović, 2024). The use of an online survey format ensured broader reach, anonymity, and minimized response bias, thereby enhancing data quality.

3.3 Data Collection

Data for this study were collected using a structured online questionnaire distributed through professional networks, email, and social media platforms to reach a diverse pool of working professionals, a method shown to be effective for accessing dispersed employee populations (Wright, 2005). The online format was selected to enhance accessibility, maintain participant anonymity, and minimize social desirability bias, which is particularly important in organizational research (Joinson, 1999). Before beginning the survey, participants received an information sheet outlining the study's objectives and provided informed consent digitally, in line with ethical research standards. The survey remained open for four weeks, during which responses were reviewed for completeness. Only fully completed questionnaires were retained for analysis, yielding 157 valid responses. This approach allowed for efficient and ethical data collection across multiple sectors and organizational levels while preserving the integrity of the dataset.

3.4 Data Analysis

Data analysis was performed using multiple regression analysis in JASP (Version 0.19.3), a widely accepted open-source statistical software for social science research (Love et al., 2019). Prior to conducting the regression, preliminary tests were carried out to verify the assumptions of normality, linearity, homoscedasticity, and multicollinearity—essential conditions for ensuring the validity of regression outcomes (Field, 2018). Descriptive statistics were computed for all key variables to understand their distributional properties, followed by Pearson correlation analysis to identify bivariate relationships and potential multicollinearity among predictors. The main regression model included Technology Adoption (TA), Leadership Support (LS), Communication Effectiveness (CE), and Organizational Culture (OC) as independent variables, with Employee Performance (EP) as the dependent variable. A simultaneous (standard) regression approach was employed, allowing for the evaluation of the unique effect of each predictor on employee performance. The significance of the overall model was determined using the F-statistic, while individual predictors were assessed through standardized beta coefficients (β), associated p-values, and 95% confidence intervals. The explanatory power of the model was measured using R^2 and adjusted R^2 . All statistical tests adhered to a significance threshold of $p < .05$ to ensure the robustness of the findings (Cohen, 1988).

4. RESULTS

The aim of this study was to examine the influence of four predictors—Technology Adoption (TA), Leadership Support (LS), Communication Effectiveness (CE), and Organizational Culture (OC)—on Employee Performance (EP) using multiple regression analysis. The regression model including all four predictors (Model M_1) showed strong explanatory power, with an R^2 value of 0.830, indicating that 83.0% of the variance in employee performance is explained by the combined influence of TA, LS, CE, and OC (Table 1). The adjusted R^2 was 0.825, accounting for sample size and number of predictors, while the Root Mean Square Error (RMSE) was 0.362, indicating a good fit with minimal prediction error. In contrast, the baseline model (M_0) with no predictors explained no variance ($R^2 = 0.000$) as illustrated in Table 1.

Table 1. Model Summary - EP

Model	R	R^2	Adjusted R^2	RMSE
M_0	0.000	0.000	0.000	0.868
M_1	0.911	0.830	0.825	0.362

Note. M_1 includes TA, LS, CE, OC

The ANOVA test for the regression model (M_1) was statistically significant, $F(4, 152) = 185.461$, $p < .001$ (Table 2), confirming that the model provides a better fit to the data than a model without predictors. This indicates that the set of independent variables significantly predicts employee performance as depicted in Table 2.

Table 2. ANOVA

M_1	Regression	97.447	4	24.362	185.461	< .001
	Residual	19.966	152	0.131		
	Total	117.413	156			

Note. M_1 includes TA, LS, CE, OC; Note. The intercept model is omitted, as no meaningful information can be shown.

The regression analysis revealed that three out of the four predictors—Technology Adoption (TA), Communication Effectiveness (CE), and Organizational Culture (OC)—had statistically significant positive effects on employee performance, while Leadership Support (LS) did not exhibit a significant impact. Specifically, Technology Adoption showed a standardized coefficient of $\beta = 0.258$ ($t = 3.811$, $p < .001$), indicating that employees who perceive technological tools as accessible, reliable, and supportive of their work tasks tend to perform better. This supports the notion that digital resources can enhance productivity when they are well-integrated into daily operations. Communication Effectiveness also emerged as a significant predictor, with $\beta = 0.356$ ($t = 3.738$, $p < .001$), demonstrating that clear, responsive, and well-structured communication systems are essential for aligning expectations and improving task execution. Notably, Organizational Culture exerted the strongest influence, $\beta = 0.407$ ($t = 5.281$, $p < .001$), underscoring that a supportive and adaptive cultural environment—marked by trust, collaboration, and openness to innovation—greatly enhances employee output. In contrast, Leadership Support had a

non-significant negative coefficient ($\beta = -0.074$, $t = -1.208$, $p = 0.229$), suggesting that in this model, leadership alone does not contribute meaningfully to performance outcomes when controlling for other variables. This may imply that leadership influence is either mediated by or dependent upon the effectiveness of organizational systems and culture, or that leadership support must be aligned with digital and communicative strategies to translate into measurable performance benefits.

Table 3. Coefficients

Model		Unstandardized	Standard Error	Standardized	t	p
M ₀	(Intercept)	3.700	0.069		53.432	< .001
M ₁	(Intercept)	0.378	0.130		2.899	0.004
	TA	0.264	0.069	0.258	3.811	< .001
	LS	-0.071	0.059	-0.074	-1.208	0.229
	CE	0.343	0.092	0.356	3.738	< .001
	OC	0.395	0.075	0.407	5.281	< .001

5. DISCUSSION

The findings of this study offer significant insights into the multifaceted nature of employee performance in technology-driven organizational environments. The positive effects of Technology Adoption, Communication Effectiveness, and Organizational Culture align with previous research emphasizing the importance of technological integration, transparent communication, and adaptive cultural values in enhancing performance (Florea & Croitoru, 2025; Vidhya & Latha, 2025; Arsani et al., 2025). In particular, the strong predictive value of Organizational Culture underscores that high performance is not merely a function of technological infrastructure but is also deeply influenced by shared norms and a culture that supports innovation, collaboration, and trust (Schein, 2010). Interestingly, Leadership Support did not significantly influence performance in this model, which contrasts with traditional assumptions in the literature (Kurniawan et al., 2025; Bass & Avolio, 1994). This suggests that leadership may only translate into performance gains when it is congruent with other organizational systems such as communication networks and cultural alignment (Eisenberger et al., 1986). Practically, these findings urge organizational leaders and HR professionals to take a systems-based approach—investing not only in strong leadership but also in digital tools, responsive communication practices, and a supportive culture. For future research, longitudinal studies could assess how leadership behaviours interact over time with evolving organizational systems. Moreover, the inclusion of mediating or moderating factors such as digital literacy, psychological safety, or employee engagement could enrich understanding of the pathways through which these organizational constructs affect performance. Comparative research across industries or national contexts would also provide valuable insights into whether these dynamics hold across different organizational environments and cultural settings.

6. CONCLUSION

This study explored the impact of four key organizational factors—Technology Adoption, Leadership Support, Communication Effectiveness, and Organizational Culture—on Employee Performance. The regression analysis revealed that Technology Adoption, Communication Effectiveness, and Organizational Culture significantly and positively influence performance, while Leadership Support did not show a significant direct effect when considered alongside the other variables. These findings suggest that employee performance in modern, digitally enabled workplaces is not solely driven by leadership, but rather by a constellation of systemic factors that include access to effective technologies, open communication channels, and a strong, supportive organizational culture. The results emphasize the need for organizations to adopt a holistic approach to performance enhancement. Investing in user-friendly digital tools, fostering transparent and two-way communication, and cultivating a culture that encourages

collaboration and innovation are essential strategies for driving employee effectiveness. Although leadership remains important, its impact may be more nuanced or indirect, potentially mediated through other organizational mechanisms. Future research should investigate these complex interrelationships using longitudinal or mixed-methods approaches. Studies that include mediators such as engagement, trust, or digital literacy, or that compare findings across industries and cultures, can offer deeper insights into how performance drivers operate in different organizational contexts.

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