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Utilizing Cloud Collaboration Platforms and Digital Leadership to Enhance Inclusivity and Productivity in Remote Teams

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ABSTRACT – The implementation of Work From Anywhere (WFA) work schemes creates new challenges such as social isolation and decreased team cohesiveness in virtual environments. This study aims to analyze and evaluate the influence of digital leadership models on social inclusion and team performance in remote work patterns. Utilizing a qualitative approach with a hermeneutic phenomenological design, data were gathered through in-depth interviews, observations on cloud collaboration platforms, and performance document analysis. The findings reveal that digital leadership combining platform technical skills and empathy-based communication successfully eliminates feelings of isolation among workers. Task transparency and equitable access to information are proven to enhance active participation, self-confidence, and overall team productivity. This study concludes that the effectiveness of WFA schemes fundamentally relies on the transformation of leadership styles toward social inclusiveness and output-based performance evaluation.

Keywords: digital leadership, social inclusion, team performance, work from anywhere, cloud platforms, work interaction, virtual management.

A. INTRODUCTION

The implementation of the flexible Work From Anywhere (WFA) work pattern has thoroughly transformed conventional work arrangements across modern business sectors. This transition is driven by the rapid development of cloud computing infrastructure and digital collaboration applications that enable instant data exchange without geographical limits. Although location flexibility offers benefits in operational efficiency and work-life balance, remote work schemes create new challenges in emotional attachment and interaction among organizational members. The prolonged absence of physical face-to-face contact risks generating feelings of isolation, a decline in the sense of belonging, and erosion of the workplace cultural norms long built within physical office environments (Bilderback & Kilpatrick, 2024). Avolio et al. (2014) explain that digital network-based workspace transformation requires fundamental restructuring in how leaders manage social interaction and team motivation. This risk of isolation is closely tied to how individuals form their identity and social perception through digital interaction, since virtual communication patterns shape how workers see themselves and are seen by others (Costa et al., 2022). The weakening of interpersonal bonds in distributed teams has also been shown to affect psychological well-being and the quality of social relationships among remote employees (Darmawan, 2023).

The success of organizational adaptation to the WFA ecosystem is largely determined by leadership's capacity to utilize technological communication channels (Gilstrap, 2019). Conventional leadership models that rely on close physical supervision are no longer relevant and often trigger a decline in employee confidence. The concept of Digital Leadership emerges as an answer to the need for an adaptive leadership style that combines technical literacy, emotional sensitivity, and the ability to build trust in virtual spaces. An effective digital leader is not merely skilled in operating project management software but is also able to create a transparent, communicative, and open space for interaction among all team members. According to Sheninger (2014), digital leadership focuses on revitalizing work culture through technology integration to strengthen interpersonal relationships and encourage inclusive innovation. This shift also

requires that HR practices be reconfigured toward greater flexibility, since leadership adaptability alone is insufficient without organizational policies that accommodate distributed work arrangements (Mardikaningsih, 2025). Continuous feedback from leaders to employees plays a central role in this process, as it helps sustain trust and speeds adjustment to new ways of working (Warin & Darmawan, 2024).

A critical issue arising in distributed workspaces is the emergence of a social inclusion gap among employees. Workers with limited technology access, less supportive home environments, or introverted personality types often feel marginalized from the organization's strategic discussions (Lauring & Jonasson, 2022). The feeling of exclusion from group dynamics can reduce self-confidence and hinder active participation in achieving shared work targets. This engagement gap triggers a decline in the sense of fairness and equal opportunity within the team. Creating an inclusive atmosphere within the organization is an absolute requirement to ensure that every individual has an equal opportunity to contribute their best to the company. Older workers are particularly vulnerable to this exclusion, as the pace of digital technology adoption within organizations is not always matched by adequate support for this group (Darmawan, 2023). Their well-being and productivity also deserve attention, since health and work capacity in the era of advanced technology increasingly determine how senior employees are able to participate (Darmawan, 2020).

The decline in social inclusion within virtual spaces directly impacts work effectiveness and overall team performance. Communication barriers among members slow decision-making processes, create task misunderstandings, and weaken group collaboration solidity (Pencheva-Hadhziradeva, 2025). A rigid and instructive leadership style often worsens the situation by creating a work climate focused solely on target fulfillment without regard for the emotional dynamics of team members. The absence of attention to the mental well-being of remote workers erodes organizational loyalty and commitment. Gilson et al. (2015) explain that virtual team effectiveness heavily depends on clarity of communication flow, fairness in role distribution, and interpersonal harmony consistently maintained by management. Mental health should be treated as an organizational construct rather than a purely personal matter, since it directly shapes how human resource strategies for the work environment ought to be designed (Issalillah & Khayru, 2025). Balancing the pace of technological adoption with a humanistic approach to managing teams is essential for sustaining an innovative yet emotionally healthy work culture (Darmawan, 2023).

Digital leaders are required to shift the paradigm of assessment from physical-presence benchmarks to objective, output-based achievement. The use of cloud collaboration platforms enables transparent and continuous monitoring of work progress without excessive supervisory actions that could damage employee trust (Kadhum et al., 2023). Participatory leadership can utilize digital media features to unite workers from diverse backgrounds into one shared vision. Consistent strengthening of social attachment steadily improves job satisfaction and individual innovative spirit. According to Roman et al. (2018), executive effectiveness in electronic work environments is measured by the ability to balance technical direction with psychological support. Sound knowledge management through such platforms can become a source of competitive advantage for organizations operating in technology-driven environments (Darmawan, 2023). Employees' self-efficacy plays an important role in determining how well they adapt to these technological changes in the workplace (Mardikaningsih & Darmawan, 2022). Measuring productivity in this digital era should also account for individual creativity and innovation rather than output figures alone (Darmawan, 2023).

Based on this dynamic, the main problem in this research focuses on the fact that the extent to which digital leadership models can bridge social inclusion barriers and optimize team performance in the WFA work pattern has not been thoroughly mapped. The massive implementation of digital applications is often not matched by leadership readiness oriented toward empathy and equal participation. This interaction gap creates a decline in team cohesiveness and productivity inequality among remote workers. Studies integrating the relationship between digital leadership style, employee social inclusion, and virtual team performance achievement have not been widely explored comprehensively. The

problem formulation of this research emphasizes the mechanism of digital leadership in building an inclusive work climate to encourage high team performance. Consistent with the issues raised, this research aims to analyze and demonstrate the influence of the digital leadership model on improving social inclusion and team performance in the WFA work scheme. This research aims to identify the digital leadership characteristics most effective in eliminating feelings of isolation among remote workers. This research also aims to formulate a transparent and adaptive cloud-based performance management framework for the dynamics of virtual social interaction. Through the achievement of these objectives, organizations are expected to adopt flexible work patterns sustainably without sacrificing the climate of togetherness or business efficiency. According to Schwarzmüller et al. (2018), adjusting leadership style to the digital era is the main key to forming organizational resilience in facing changes in the employment landscape. Organizational effectiveness itself is shaped by several interacting factors, so any evaluation of digital leadership's contribution needs to consider these factors together rather than separately (Darmawan, 2024). Digitalization has also been shown to reshape labor and task structures more broadly, which strengthens the case that leadership and performance management frameworks must evolve alongside these structural shifts (Triono et al., 2025). This pattern mirrors how advanced technology has transformed other sectors, reshaping roles and processes in ways previously unimaginable (Khayru, 2022). It also reflects a wider tendency for digital-era principles to reorganize how resources, including human resources, are managed toward more sustainable and efficient outcomes (Mardikaningsih & Nuraini, 2022).

This research contributes theoretical enrichment to the science of human resource management and organizational behavior through the deepening of virtual leadership models in developing countries. From a practical perspective, the results of this research present applicative guidance for managerial ranks in designing WFA policies that balance the utilization of technology and the management of human aspects. The strengthening of inclusive digital leadership helps companies retain top talent from various geographic regions. The alignment between the mastery of digital collaboration instruments, fairness of social engagement, and objective performance structuring is capable of creating an adaptive, productive, and highly competitive work culture.

B. METHOD

An in-depth exploration regarding the dynamics of digital leadership, harmony of social interaction, and work effectiveness in the WFA scheme is carried out through a qualitative design based on a literature study with a hermeneutic phenomenology approach. The phenomenological foundation was chosen to capture the essence of the real experiences of workers and leadership ranks when interacting in virtual workspaces, as depicted in various literature sources and empirical reports. The focus of the review is directed at technology-based business entities that have fully implemented work-from-anywhere policies for more than two years, based on cases that have been documented in scientific publications and industry reports. According to van Manen (2016), phenomenological studies allow researchers to delve into the deepest meanings of individuals' lived experiences in specific spatial and social situations. Denzin and Lincoln (2011) add that a qualitative framework provides flexibility in interpreting social phenomena based on the perspective of the subjects experiencing the events directly, and in the realm of literature study, these perspectives are traced through narratives and qualitative findings from previous researches.

The collection of research materials is undertaken through planned and comprehensive literature exploration, which includes scientific articles from accredited journals, research reports on digital leadership and WFA, case studies of technology-based companies, documentation of remote work policies, as well as publications from research institutions and management consultants. Researchers absorb diverse perspectives regarding leadership communication styles, team members' perceptions of social acceptance, and operational constraints during remote work through the synthesis of findings from previously published researches. The same applies to aspects involving the dynamics of cloud collaboration communication and team performance achievements, which are traced from case study narratives and field

notes immortalized in academic and policy literature. According to Silverman (2016), the depth of qualitative data is determined by the researcher's thoroughness in selecting literature sources that have a direct connection with the research problem. The validity and credibility of the findings are verified through triangulation among types of literature sources and cross-referencing to ensure the consistency of the analysis results.

All collected literature materials are processed following the stages of qualitative thematic analysis as formulated by Saldaña (2015). The processing begins with repeated tracing of all sources for a complete understanding, followed by initial coding on relevant text segments. These codes are then grouped into abstract categories to construct main themes that describe the causal relationship between digital leadership styles, feelings of social inclusion, and the achievement of team targets based on patterns that emerge consistently in the literature. According to Miles, Huberman, and Saldaña (2014), qualitative data analysis is an iterative process involving data condensation, visual presentation of themes, and drawing logical conclusions. This systematic methodological flow guarantees that the research findings truly reflect the objective conditions as portrayed in verified literature.

C. RESULTS AND DISCUSSION

The implementation of a digital leadership model in a Work From Anywhere (WFA) work environment brings significant changes to team communication patterns and members' emotional attachment. Every shift in a virtual team's communication pattern should begin with interaction norms agreed upon collectively by all members. Digital leaders should design communication channels that separate formal task-related matters from informal social interaction. Emotional attachment in a distributed team should be built through the leader's consistent presence across various team communication forums (Ahn & Paik, 2025). This shift toward a more open leadership style is further reinforced by changes in the working relationship between management and employees under literacy-based digitalization (Darmawan, Gardi, & Da Silva, 2023). Leaders who adopt a digital leadership approach no longer position themselves as rigid supervisors, but as facilitators who optimize cloud-based collaboration channels. Such a shift in the leader's role affirms that digital-oriented leadership can drive operational efficiency, strengthen team collaboration, and spark organizational innovation (Darmawan & Gardi, 2024). This transformation in leadership style encourages the formation of a more flexible, transparent work culture that is responsive to employees' daily needs. The role modeling shown by superiors in utilizing virtual chat room features reduces hierarchical distance and increases workers' courage to voice creative ideas openly without fear. The reduction of hierarchical distance should be followed by clarity regarding the boundaries of decision-making authority at each team level. A responsive work culture should include a feedback mechanism that allows work procedures to be adjusted based on regular input from team members.

This change in interaction patterns can eliminate the feelings of isolation often experienced by remote workers. Feelings of isolation in remote work should be addressed through a regular communication schedule that does not only cover technical work matters. Every member of a virtual team should have an equal opportunity to speak and be heard in every team discussion forum. Digital leaders should consciously create moments of virtual togetherness outside the context of operational tasks (Lenzner et al., 2023). Positive psychological factors have been shown to play a major role in fostering employee engagement and commitment to their assigned tasks (Darmawan & Mardikaningsih, 2022). Leaders who consistently hold informal discussion sessions on digital platforms succeed in building a warm sense of togetherness among staff. A game-based learning approach can also be used to maintain cooperation and empathy among employees even when they are physically apart (Putra et al., 2024). The presence of a supportive virtual meeting space triggers an increased sense of belonging and strengthens individuals' confidence in carrying out their work responsibilities. Employees feel that their presence is recognized and valued by the organization even when they are located far apart geographically. The absence of physical boundaries is successfully offset by the availability of emotional communication channels planned deliberately by management. Planning emotional communication channels should involve input from employee

representatives so that they match the team's real needs. Recognition of individual contributions in a virtual team should be conveyed openly so that all members are aware of the appreciation given.

Field data exploration reveals that workers' level of social inclusion is directly proportional to leaders' flexibility in managing daily schedules and workloads. Social inclusion in a virtual team should include acceptance of differences in work capacity influenced by each member's geographic conditions and facilities. A flexible organizational structure indeed plays an important role in improving a company's ability to adapt to a dynamic work environment (Darmawan & Mardikaningsih, 2023). Flexibility in managing work schedules should take into account differences in time zones and each employee's productive hours (Tshabalala & Bussin, 2025). Digital leaders should set project deadlines that allow adjustment for team members in regions with limited infrastructure access. A digital divide experienced by some team members can lower their level of participation and trust in the shared work process (Issalillah & Hardyansah, 2022). Digital leaders who respect individual work-hour preferences are more successful in creating a fair work climate that values the diversity of employees' personal circumstances. The empathetic attitude shown by leaders when responding to staff's technical difficulties or domestic matters gives rise to a sense of psychological safety within the group. This sense of safety encourages active participation from all team members, including those with introverted personalities or those living in remote areas. This balance of attention creates a supportive work space for the growth of every employee's potential. A supportive work space should provide a dedicated channel for introverted team members to convey ideas without pressure to speak in large forums. Balanced attention to all team members should be managed through a scheduling system that records the frequency of the leader's interaction with each individual proportionally.

The use of digital work platforms equipped with interactive task-board transparency makes accountable division of work easier. Every digital work platform should have a feature that visually displays task division so that all team members can see the overall work structure (Subramaniam, 2025). The use of technologies such as big data, artificial intelligence, and the internet of things on digital work platforms also speeds up the process of dividing and monitoring tasks accurately (Putra & Arifin, 2021). Accountability in dividing work portions should be supported by a record of task changes that can be tracked by all interested parties. An interactive task board should be equipped with status indicators that show the completion level of each work item. Every team member can monitor colleagues' work progress in real time without having to wait for written instructions from a superior. This openness in workflow prevents the emergence of perceived unfairness in workload distribution, which is often a trigger for internal conflict in remote teams. A clear division of roles that is accessible to all parties strengthens synergy and coordination among staff in completing complex projects. Consistently maintained openness also helps preserve the organization's reputation in the eyes of both employees and outside parties (Darmawan et al., 2022). The operational transparency provided by cloud platforms becomes the main foundation for building mutual trust among members of the organization. Mutual trust among team members should be maintained through consistent updates on changes to project priorities or schedules. The validity of work records and agreements made electronically also needs attention so that task division carries clear legal standing (Maulani et al., 2023). Operational transparency should be balanced with protection of each team member's personal data and sensitive information.

Avolio et al. (2000) affirm that electronic network-based leadership (e-leadership) transforms organizational interaction structures through a sophisticated blend of information technology and human relational dynamics. Every leader in a digital work environment should master not only technical tools but also the ability to read the emotional dynamics occurring in virtual spaces. Changes in interaction structure should be followed by adjustments to communication norms that govern etiquette and ethics in digital forums. A leader's mastery of digital communication instruments should be regarded as a

competency just as important as traditional managerial ability. A leader's mastery of digital communication instruments determines the extent to which shared norms can be embedded into the group's collective memory (Gawande & Atul, 2022). A leader's technical skills must go hand in hand with social sensitivity so they can recognize signs of psychological fatigue among virtual team members. The alignment between mastery of technological instruments and a humanistic approach becomes the main determinant of work efficiency in a distributed scheme. Shared norms within a virtual team should be evaluated periodically to ensure their relevance amid changes in team composition. Building the ability to recognize signs of psychological fatigue requires targeted policy support for improving digital-based human resource competencies, both from government and from within organizations (Rojak, 2024).

Virtual leadership should not be measured solely by technical proficiency but by the ability to build equal and respectful human relationships in digital spaces. Kayworth and Leidner (2002) explain that the most effective virtual team leaders are those who can demonstrate high-empathy communication while establishing role expectations clearly and systematically. Leaders who focus too heavily on mechanical control tend to create social tension and lower subordinates' intrinsic motivation. Conversely, a combination of interactional flexibility and clear task deadlines can produce a harmonious work atmosphere. This balance in leadership style maintains long-term team productivity. This balance is closely related to authentic leadership, which has been shown to shape a positive work climate and encourage voluntary contribution beyond formal job duties (Mardikaningsih et al., 2022).

Every remote performance evaluation system should value the substance of work results rather than mere procedural compliance that ignores the realities of workers' lives. According to Hertel et al. (2005), the effectiveness of managing remote teams strongly depends on setting performance indicators based on final output rather than counting hours of physical presence in front of a screen. The shift in evaluation patterns from process supervision to genuine achievement assessment increases the autonomy and job satisfaction of WFA employees. Leaders who give staff full trust to manage their own working methods succeed in raising a sense of personal responsibility. This freedom to manage working time becomes a strong moral driver for employees to give maximum contribution toward achieving organizational targets. This freedom needs to be balanced with proper oversight design, since digital monitoring, when implemented appropriately, can still preserve employee autonomy and professional responsibility rather than undermine them (Mardikaningsih et al., 2024).

Access to organizational knowledge should be a right for all team members without geographical discrimination, since informational fairness is the foundation of trust in digital leadership. Malhotra et al. (2007) show that successful digital leadership is marked by a leader's ability to create a structured knowledge documentation system that is accessible equally to all group members. Open access to information prevents a knowledge gap between workers located near operational centers and those in remote areas. This fairness in data access increases the confidence of remote workers when making independent operational decisions. Equal distribution of knowledge becomes an important instrument in creating a climate of social inclusion within the company. This equal distribution also depends on closing gaps in technology access and digital skills, since disparities in this area can still leave certain workers behind despite the availability of shared knowledge systems (Arifin & Darmawan, 2021).

Virtual leaders should be a source of inspiration that reaches beyond the screen, not merely supervisors who monitor productivity from a distance without emotional presence. Based on Purvanova and Bono (2009), the effect of transformational leadership style is much stronger in virtual team environments compared to conventional face-to-face work settings. Leaders who can transmit inspiration, vision, and individual attention through digital communication channels succeed in generating extraordinary commitment from subordinates. The need for strong motivational encouragement among remote workers makes the presence of an inspiring leader figure highly crucial. An empathy-based motivational approach is effective in overcoming the barriers of geographical distance and limited physical interaction. This inspirational approach is strengthened when it is grounded in ethical leadership, since consistent ethical

conduct helps sustain a positive and lasting organizational culture even without direct supervision (Mardikaningsih et al., 2022).

Constructive and routine feedback should be a moral obligation of digital leaders, not merely an incidental activity carried out only when problems arise. Cascio and Shurygailo (2003) reveal that the main mistake in managing distributed teams lies in leadership that provides too little constructive feedback to staff on a regular basis. The absence of continuous two-way communication creates doubt among subordinates about the quality of work they have completed. Responsive digital leaders must actively provide dedicated time for individual consultation sessions to discuss career development and daily obstacles faced by subordinates. This personal attention effectively strengthens emotional bonds and prevents employee turnover tendencies. Such attention also needs to extend to how employees build knowledge and stay engaged in increasingly automated routine tasks, since this determines whether feedback translates into real skill growth (Darmawan, 2024).

Every organization implementing remote work should provide a safe and inclusive social space, because workers' mental health is a collective responsibility, not an individual burden. Golden and Veiga (2005) indicate that the job satisfaction level of remote work participants is directly influenced by the amount of social support received from superiors and colleagues. Leaders who facilitate the formation of internal social networks within digital platforms help workers overcome professional isolation. The availability of informal chat spaces for sharing daily experiences is effective in maintaining employees' mental health. A friendly and mutually supportive work climate strengthens organizational resilience in facing dynamic business challenges (Ali et al., 2025). This inclusive social space cannot be separated from broader shifts in cultural values and social practices that digital technology has brought into everyday work life (Al Hakim et al., 2021). It also intersects with how fairly technology is applied across genders, since the way digital tools are used in the workplace can either narrow or widen existing inequalities (Darmawan, 2024).

Collaboration technology should be designed to simplify, not complicate, so that all team members, including those less digitally literate, can participate equally. Shin et al. (2012) state that the integration of intuitive collaboration technology accelerates the formation of a shared mental model among team members scattered across different locations. Aligned task understanding minimizes the risk of communication friction and clashing perceptions about work priorities. Digital leaders are responsible for ensuring that all cloud-based work tools are operated uniformly across all staff levels. This uniformity in the use of digital tools smooths the flow of coordination and improves project completion efficiency. This is part of a broader pattern in which technology serves as a driver of sustainable human resource development, provided its adoption is directed deliberately rather than left to develop on its own (Mardikaningsih & Wardoyo, 2024).

Empowerment in virtual teams should not merely be a managerial strategy but an ethical commitment to respect the potential of every individual regardless of physical location. Kirkman et al. (2004) explain that the sense of empowerment in virtual teams acts as a mediating variable connecting transformational leadership and team performance achievement. Leaders who are willing to delegate decision-making authority to remote staff succeed in triggering a surge of initiative and innovation at the operational level. The trust given by leaders is repaid by staff through increased accuracy and work efficiency. Empowerment consistently proves to be an effective strategy for improving team competitiveness amid modern business competition (Kirkman & Smith, 2025). This kind of empowerment also supports the management of workforce diversity, since giving equal decision-making space to individuals from different backgrounds tends to strengthen both innovation and overall team performance (Darmawan, 2024).

Digital leaders should actively bridge differences in local context among team members, since mutual understanding is a prerequisite for fair and productive collaboration. Cramton (2001) reveals that limited mutual knowledge about background conditions often damages remote collaboration if not handled promptly by leaders. Digital leaders must facilitate the exchange of information about each member's local working conditions so that mutual understanding is built among staff. Understanding constraints related to time zone

differences and local cultural background prevents misunderstandings when message responses are delayed. Cultural sensitivity instilled by leaders creates an inclusive and tolerant work environment (Judeu et al., 2025). Managing such cross-location differences fairly resembles the broader principle of balancing operational performance with social responsibility toward everyone involved in a distributed process, wherever they are positioned (Barzani et al., 2022).

Hoch and Kozlowski (2014) show that effective digital leadership can fill the gap left by the absence of physical supervision by strengthening shared leadership mechanisms. Every team member in a digital work environment should have an equal opportunity to take on a leadership role according to their respective competencies. Leadership structures in virtual teams should be dynamic and shift according to project needs at each stage of work. The division of leadership roles should be carried out through mutual agreement, not through unilateral determination by superiors (Anoye & Kouamé, 2018). Leaders encourage every team member to take on a leadership role at project stages that match their specific expertise. This rotating division of leadership roles increases the whole team's sense of ownership and togetherness toward the final work outcome. This collective leadership model is effective in improving overall virtual team performance. Every team member should understand that leadership responsibility is collective in nature and not centered on a single structural position. Shared leadership mechanisms should be equipped with clear operational guidelines regarding role transitions and collective decision-making.

The synergy between inclusive digital leadership and the availability of cloud-based collaboration tools consistently raises team performance achievement. Inclusive leadership should ensure that every team member's voice gets space to be heard in every decision-making process (Chakma & Chakma, 2025). Cloud-based collaboration tools should be designed to facilitate equal interaction among team members regardless of their respective geographical locations. Optimal virtual team performance should be achieved through a combination of technical competence and communication ability among team members. Teams led by adaptive managers record faster task completion rates with very low procedural error rates. Employees feel comfortable sharing new ideas because they believe every aspiration will be heard and followed up fairly by leadership (Eddine et al., 2023). A psychologically safe work environment encourages the emergence of creative solutions for handling the company's operational obstacles. Every digital collaboration mechanism should provide a transparent record of each team member's contribution. The capability of adaptive managers should be developed through a sustainable leadership development program (Darmawan et al., 2020). This synergy is reinforced by HR development policies designed specifically around digital tools, as such policies tend to drive collaborative product and service innovation more consistently than ad hoc technology adoption (Mardikaningsih et al., 2024).

Quantitative performance evaluation shows an increase in time-allocation efficiency for project work among teams that fully implement digital leadership. Time efficiency in virtual teams should be measured based on the completion of project stages according to a jointly agreed schedule (Wang et al., 2022). Every coordination activity in a digital environment should have a clear purpose and a defined deadline. The use of task-tracking features should be applied to monitor work progress without creating an impression of excessive supervision. This monitoring works best when task structures are redesigned around clear job characteristics, since well-structured work tends to improve team performance through better coordination and collaboration (Hariani & Putra, 2025). The use of cloud-based task-tracking features cuts down the duration of formal coordination meetings that usually consume a great deal of productive work time. The time successfully saved is allocated by staff to focus on completing technical tasks that require high concentration (Darmawan, 2024). This reallocation of time is closely tied to how automation reshapes job design, since redesigned roles built around digital workforce competencies tend to free up more time for higher-value technical work (Darmawan, 2025). This time-management efficiency has a positive impact on the work-life balance of WFA employees. Task scheduling in virtual teams should take into account time zone differences and the effective working hours of each team member.

Allocation of time for technical tasks should be given a larger portion compared to time spent on administrative activities. Measuring these efficiency gains accurately can also be supported by data-driven approaches, as analytics-based evaluation methods help capture performance improvements more precisely than manual tracking alone (Mardikaningsih & Darmawan, 2025).

The positive impact of strengthened social inclusion is also visible in the low levels of stress and burnout among members of distributed teams. Every virtual team member should have access to psychological support mechanisms provided by the company. Digital leaders should routinely monitor non-technical indicators that reflect team members' well-being (Ali et al., 2025). This well-being concern is closely linked to how employees perceive and adapt to work-life balance in digitally supported workplaces, since perception gaps in this area often precede visible signs of burnout (Eddine & Darmawan, 2025). A healthy digital work environment should encourage a balance between job demands and employees' need for rest. The presence of a supportive and communicative leader provides a sense of calm for employees when facing a sudden increase in workload. A sensitive digital leader will quickly redesign task distribution upon noticing signs of fatigue in certain staff. This protection of employees' mental well-being sustains team productivity over the long term. Such protection deserves particular attention for older employees, since inclusive leadership practices geared toward this group have been shown to support their motivation and retention within the organization (Darmawan, 2025). Task rescheduling should be carried out with the involvement of the staff concerned to ensure suitability with each person's capacity. Protection of mental well-being should be part of a well-documented human resource management policy. This concern for wellbeing also connects to a broader question of how deeply digital tools become embedded in daily work life, since heavy technological embodiment can, in some cases, contribute to a fragmented sense of identity among workers (Abror et al., 2025).

Nevertheless, the successful implementation of digital leadership still requires ongoing infrastructure adjustment and continuous technology literacy training. Every company implementing remote work should provide digital infrastructure that meets minimum standards to support daily operations (Michel, 2024). This infrastructure requirement can be strengthened further through digital twin systems, which allow organizations of various scales to manage and monitor their infrastructure more sustainably (Khayru, 2025). Technology literacy training should be provided periodically to all staff to keep pace with constantly changing software developments. The provision of technical support should cover service hours spanning the team's entire active working hours across different time zones. Companies need to provide readily available technical support to help employees experiencing connectivity issues or work device damage. Digital leaders act as a bridge connecting staff's technical needs with the company's information technology division policies. Building this kind of trust between staff and the technical system resembles the broader principle behind decentralized digital instruments, where transparency and shared verification strengthen confidence in how a system is managed (Darmawan, da Silva, & da Costa, 2025). Adequate infrastructure support ensures that the remote work process can proceed without significant operational obstacles. Every information technology policy should consider input from end users before being widely implemented. Digital leaders should have sufficient technical understanding to accurately identify their team's infrastructure needs.

The digital leadership model is a key factor determining the success of implementing the WFA work pattern on a broad scale. The success of remote work implementation should be measured not only by production output but also by the quality of relationships among team members (Wagan & Sidra, 2025). Every organization transitioning to the WFA work pattern should establish policies that clearly regulate employees' rights and obligations. Employees' positive experience in working remotely should serve as evaluation material for refining the work model in the future. This positive experience is closely tied to how well organizational values around sustainability align with employees' intention to stay, since a mismatch in this area can undermine an otherwise well-designed WFA policy (Mardikaningsih & Essa, 2025). Effective digital leadership should bring together organizational goals and the individual needs

of each team member. Leadership that combines expertise in managing digital tools with a humanistic emotional approach succeeds in creating an inclusive, solid, and high-performing work team. The positive experience felt by employees strengthens their commitment to delivering the best work results for the organization's progress. The success of this model becomes an important reference for structuring human resource management strategy in the era of digital transformation. Every reference generated from practical experience should be periodically reviewed to ensure its relevance to changes in the work environment. Human resource management strategy in the digital era should integrate aspects of leadership, technology, and employee well-being within one complete policy framework.

D. CONCLUSIONS

The implementation of the digital leadership model provides a significant positive influence on the enhancement of social inclusion and team performance in Work From Anywhere (WFA) working patterns. The leader's ability to integrate cloud computing-based collaborative communication instruments and an empathetic management approach successfully eliminates feelings of isolation among remote workers. The openness of workflow and fairness in information access trigger a surge in self-confidence, enhance active participation of group members, and encourage the creation of sustainable work efficiency and innovation.

The theoretical implications of this research strengthen the framework of organizational behavior and human resource management science by proving that the success of virtual teams is not merely determined by the availability of advanced technology, but rather by a humanistic and inclusive leadership style. Practically, these findings provide guidance for company executives that WFA policies require updates to actual achievement-based performance appraisal systems as well as consistent digital leadership literacy training. The establishment of a psychologically safe work environment constitutes a strategic organizational investment in maintaining business resilience in the era of work flexibility. The human resource division needs to design routine digital leadership capacity development programs for line managers to hone emotional communication skills in virtual spaces. Team leaders are advised to continuously open two-way informal dialogue channels and utilize digital collaboration platforms transparently to maintain a sense of togetherness and equality among staff.

REFERENCES

Abror, S., Khayru, R. K., Chasanah, U., & Issalillah, F. (2025). Technological Embodiment and the Fragmentation of Social Identity in the Era of Human Enhancement. Bulletin of Science, Technology and Society, 4(1), 19–26.

Ahn, J.-H., & Paik, Y. (2025). Leadership in Remote Work Environments: A Review of Research. 리더십 연구, 16(3), 123–151.

Al Hakim, Y. R., Rojak, J. A., & Triono, B. (2021). Transformation of Cultural Values and Social Practices in the Digital Age. Journal of Social Science Studies, 1(1), 173-178.

Ali, M., Soomro, M. A., & Khoso, R. A. (2025). Virtual Team Building for Mental Health: Creating Psychological Safety in Digital Environments. Review Journal of Social Psychology & Social Works, 3(3), 1082–1096.

Anoye, A. B., & Kouamé, J. S. (2018). Leadership Challenges in Virtual Team Environment. International Journal of Scientific & Technology Research, 7(7), 160–167.

Arifin, S., & D. Darmawan. (2021). Technology Access and Digital Skills: Bridging the Gaps in Education and Employment Opportunities in the Age of Technology 4.0, Journal of Social Science Studies, 1(1), 163 – 168.

Avolio, B. J., Kahai, S., & Dodge, G. E. (2000). E-Leadership: Implications for Theory, Research, and Practice. The Leadership Quarterly, 11(4), 615-668.

Avolio, B. J., Sosik, J. J., Kahai, S. S., & Baker, B. (2014). E-leadership: Re-examining the Implications of Technology on Leadership Research and Practice. The Leadership Quarterly, 25(1), 105-131.

Barzani, L. A., Darmawan, D., & Zulkarnain, M. A. B. (2022). The Application of Sustainable Supply Chain Management Principles in the Manufacturing Industry to Improve Operational Performance and Corporate Social Responsibility. International Journal of Service

Science, Management, Engineering, and Technology, 1(1), 38–45.

Bilderback, S., & Kilpatrick, M. D. (2024). Global Perspectives on Redefining Workplace Presence: The Impact of Remote Work on Organizational Culture. Journal of Ethics in Entrepreneurship and Technology, 4(1), 62-72.

Cascio, W. F., & Shurygailo, S. (2003). E-leadership and Virtual Teams. Organizational Dynamics, 32(4), 362-376.

Chakma, S., & Chakma, G. (2025). Inclusive Leadership: A Catalyst for Organizational Growth and Performance. Open Journal of Business and Management, 13(06), 3811–3827.

costa, S. da, Darmawan, D., & Isaac, A. de J. (2022). Self-Identity Formation and Social Perception of Individuals through Interaction on Social Media in a Digital World. Journal of Social Science Studies, 2(2), 273-278.

Cramton, C. D. (2001). The Mutual Knowledge Problem and its Consequences for Dispersed Teams. Organization Science, 12(3), 346-371.

Darmawan, D. (2020). Health, Well-Being, and Productivity of Senior Employees in the Era of Artificial Intelligence. Journal of Science, Technology and Society (SICO), 1(2), 43–50.

Darmawan, D. (2023). Innovation Culture That Balances Technological Speed with the Depth of Humanistic Thought. International Journal of Service Science, Management, Engineering, and Technology, 4(1), 47–54.

Darmawan, D. (2023). Knowledge Management as a Source Of Competitive Advantage in Information Technology Companies. International Journal of Service Science, Management, Engineering, and Technology, 3(2), 44–50.

Darmawan, D. (2023). Measuring Employee Productivity in the Digital Era by Considering Human Creativity and Innovation. International Journal of Service Science, Management, Engineering, and Technology, 4(3), 47–53.

Darmawan, D. (2023). Social Inclusion for Older Workers in the Implementation of Digital Technology within Organizations. International Journal of Service Science, Management, Engineering, and Technology, 4(2), 44–51.

Darmawan, D. (2023). The Concept Of Remote Work: A Literature Review on its Impact on Work Dynamics, Psychological Well-Being, and Social Relationships Among Employees. International Journal of Service Science, Management, Engineering, and Technology, 3(3), 49–55.

Darmawan, D. (2024). Distribution of Six Major Factors Enhancing Organizational Effectiveness. Journal of Distribution Science, 22(4), 47-58.

Darmawan, D. (2024). Strategies for Enhancing Employee Knowledge fnd Engagement in Automated Routine Work. International Journal of Service Science, Management, Engineering, and Technology, 6(1), 65–71.

Darmawan, D. (2024). The Role of Technology in Promoting or Hindering Gender Equality in the Workplace. International Journal of Service Science, Management, Engineering, and Technology, 6(2), 67–73.

Darmawan, D. (2024). Workforce Diversity Management Strategies for Enhancing Innovation and Team Performance. International Journal of Service Science, Management, Engineering, and Technology, 5(2), 53–59. Retrieved from https://ejournalisse.com/index.php/isse/article/view/230

Darmawan, D. (2025). Inclusive Leadership Dynamics to Enhance Motivation and Retention of Older Employees in Modern Organizations. Bulletin of Science, Technology and Society, 4(2), 79–86.

Darmawan, D. (2025). Job Redesign, Automation, and Digital Workforce Competencies in the Twenty-First Century. Bulletin of Science, Technology and Society, 4(3), 103–114.

Darmawan, D., & Gardi, B. (2024). Digital-Oriented Leadership and Organizational Transformation: Fostering Operational Efficiency, Team Collaboration, and Innovation in the Digital. International Journal of Service Science, Management, Engineering, and Technology, 5(1), 37–42.

Darmawan, D., & Mardikaningsih , R. (2023). The Role of Flexible Organizational Structures in Enhancing Corporate Adaptability to Environmental Dynamics. International Journal

of Service Science, Management, Engineering, and Technology, 3(1), 44–49.

Darmawan, D., & Mardikaningsih, R. (2022). The Role of Positive Psychological Factors in Enhancing Employee Engagement and Commitment to Work Tasks. International Journal of Service Science, Management, Engineering, and Technology, 1(2), 37–45.

Darmawan, D., da Silva, B. dos S., & da costa, S. (2025). Blockchain as an Instrument of Decentralized Social Order and Democratic Reconfiguration. Bulletin of Science, Technology and Society, 4(1), 11–18.

Darmawan, D., Gardi, B., & Da Silva, E. B. (2023). Exploration of Changes in Management and Employee Work Relations in Multinational Companies in the Era of Literacy-Based Digitalization. Journal of Science, Technology and Society (SICO), 4(2), 43–54.

Darmawan, D., Mardikaningsih, R., Sinambela, E. A., Arifin, S., Putra, A. R., Hariani, M., Irfan, M., Al Hakim, Y. R., & Issalillah, F. (2020). The Quality of Human Resources, Job Performance and Employee Loyalty. International Journal of Psychosocial Rehabilitation, 24(3), 2580–2592.

Darmawan, D., Mendonca, C. N., & Isaac, A. de J. (2022). Managing Corporate Reputation in the Digital Age: Challenges and Solutions for Maintaining a Positive Image on Social Media. Journal of Social Science Studies, 2(1), 283-288.

Denzin, N. K., & Lincoln, Y. S. (2011). The SAGE Handbook of Qualitative Research (4th ed.). SAGE Publications, Thousand Oaks.

Eddine, B. A. S. & D. Darmawan. 2025. Employees' Perceptions of and Efforts to Adapt to Work-Life Balance in a Digitally Supported Workplace, Studi Ilmu Sosial Indonesia, 5(2), 341-356.

Eddine, B. A. S., Darmawan, D., Mardikaningsih, R., & Sinambela, E. A. (2023). The Effect of Knowledge Management and Quality of Work Life on Employee Commitment. Journal of Human Sciences, 10(1), 87–100.

Gawande, A., & Atul, K. (2022). Strategies for Digitalized Organizations in Terms of Leadership. Recent Innovations in Engineering, Science and Management (RIESM), 1421-1475.

Gilson, L. L., Maynard, M. T., Young, N. C. J., Vartiainen, M., & Hakonen, M. (2015). Virtual Teams 2000–2015: Forty Years of Research Review and Directions for the Future. Journal of Management, 41(5), 1313-1337.

Gilstrap, C. (2019). Exploring M-Leader Affordances: Team Leaders and Mobile Technologies. Team Performance Management, 25(1-2), 84–99.

Golden, T. D., & Veiga, J. F. (2005). The Impact of Extent of Telecommuting on Job Satisfaction: Resolving Inconsistent Findings. Journal of Management, 31(2), 301-318.

Hariani, M. & A. R. Putra. (2025). Job Characteristics Based Work Redesign and its Influence on Team Performance Through Coordination and Collaboration, Studi Ilmu Sosial Indonesia, 5(2), 245-280.

Hertel, G., Geister, S., & Konradt, U. (2005). Managing Virtual Teams: A Review of Current Empirical Research. Human Resource Management Review, 15(1), 69-95.

Hoch, J. E., & Kozlowski, S. W. (2014). Leading Virtual Teams: Hierarchical Leadership, Structural Supports, and Shared Leadership. Journal of Applied Psychology, 99(3), 390-403.

Issalillah, F., & Hardyansah, R. (2022). The Impact of the Digital Divide and Misinformation on Partici-pation and Trust in Local Communities. Journal of Social Science Studies, 2(2), 7-12.

Issalillah, F., & Khayru, R. K. (2025). Mental Health as an Organizational Construct: A Strategic Reorientation of Human Resource Management for Work Environment Design. International Journal of Service Science, Management, Engineering, and Technology, 8(3), 1–9.

Judeu, V. M., Tărău, P.-B., & Birta, A.-M. (2025). Leading the Borderless Team: Management Practices for a Hybrid and Geographically Dispersed International Workforce. Agora International Journal of Economical Sciences, 19(2), 172-180.

Kadhum, M. M., Khan, Md. S., & Syed, M. M. (2023). Remote Work Culture: The Impact of Digital Transformation on Workforce Productivity. Journal of e-Science Letters, 4(1), 1–5.

Kayworth, T. R., & Leidner, D. E. (2002). Leadership Effectiveness in Global Virtual

Teams. Journal of Management Information Systems, 18(3), 7-40.

Khayru, R. K. (2022). Transforming Healthcare: The Power of Artificial Intelligence. Bulletin of Science, Technology and Society, 1(3), 15-19.

Khayru, R. K. (2025). Digital Twins for Sustainable Infrastructure Management at Various Organizational Scales. Bulletin of Science, Technology and Society, 4(3), 13–24.

Kirkman, B. L., & Smith, T. A. (2025). Empowering Leadership. Oxford University Press, Oxford.

Kirkman, B. L., Rosen, B., Tesluk, P. E., & Gibson, C. B. (2004). The Impact of Team Empowerment on Virtual Team Performance: The Moderating Role of Face-to-Face Interaction. Academy of Management Journal, 47(2), 175-192.

Lauring, J., & Jonasson, C. (2022). How is Work Group Inclusiveness Influenced by Working Virtually?. Human Resource Management Review, 33(2), 1-10.

Lenzner, A., Tinguely, P., & Krogh, G. von. (2023). Virtual Communication and Professional Isolation in Hybrid Work. Proceedings - Academy of Management, 2023(1), 14607.

Malhotra, A., Majchrzak, A., & Rosen, B. (2007). Leading Virtual Teams. Academy of Management Perspectives, 21(1), 60-70.

Mardikaningsih, R. (2025). The Deconstruction of Work and HRM Reconfiguration: Flexibility and Employer Branding in the Digital Era. International Journal of Service Science, Management, Engineering, and Technology, 8(2), 10-17.

Mardikaningsih, R., & Darmawan, D. (2022). The Role of Self-Efficacy in Predicting Employee Adaptability to Technological Change in the Workplace,. International Journal of Service Science, Management, Engineering, and Technology, 2(3), 43–55.

Mardikaningsih, R., & Darmawan, D. (2025). Utilization of Big Data Analytics to Improve Corporate Environmental Performance in Managerial and Organizational Dimensions. Bulletin of Science, Technology and Society, 4(3), 1–12.

Mardikaningsih, R., & Essa, N. E. (2025). The Compatibility of Sustainability Values and Turnover Intention in Modern Business Organizations. Bulletin of Science, Technology and Society, 4(3), 79–90.

Mardikaningsih, R., & Nuraini, R. (2022). Implementation of Circular Economy Principles for Sustainable Waste Management in the Industrial Sector. International Journal of Service Science, Management, Engineering, and Technology, 1(3), 41–47.

Mardikaningsih, R., & Wardoyo, D. T. W. (2024). The Role of Technology in Human Resource Development for Sustainability: A Literature Review on Digital Innovation. Bulletin of Science, Technology and Society, 3(3), 20–26.

Mardikaningsih, R., Halizah, S. N., Darmawan, D., Masithoh, N., & Nuraini, R. (2022). Examining the Role of Authentic Leadership in Shaping Positive Work Climate and Organizational Citizenship Behavior. International Journal of Service Science, Management, Engineering, and Technology, 2(1), 52–59.

Mardikaningsih, R., Halizah, S. N., Nuraini, R., & Darmawan, D. (2022). The Role of Ethical Leadership in Shaping a Positive and Sustainable Organizational Culture. International Journal of Service Science, Management, Engineering, and Technology, 2(2), 48–55.

Mardikaningsih, R., Hariani, M., Darmawan, D., Halizah, S. N., & Nuraini, R. (2024). The Impact of Digital Monitoring on Employee Work Autonomy and Professional Responsibility. International Journal of Service Science, Management, Engineering, and Technology, 5(3), 60–67. Retrieved from https://ejournalisse.com/index.php/isse/article/view/231

Mardikaningsih, R., Wardoyo, D. T. W., & Hariani, M. (2024). Digital-Based HR Development Policy as a Driver of Sustainable Collaborative Product and Service Innovation. Journal of Science, Technology and Society (SICO), 5(1), 43–54.

Maulani, A., Hardyansah, R., Darmawan, D., Mendonca, C. N., & de Jesus Isaac, A. (2023). Juridical Analysis of the Validity of Electronic Contracts Made by Artificial Intelligence in

Indonesian Law. Journal of Social Science Studies, 3(1), 139-144.

Michel, A. (2024). Navigating the Dynamics of Virtual Leadership: Strategies for Success in a Digital Age. International Journal of Research Publication and Reviews, 5(12), 3197–3199.

Miles, M. B., Huberman, A. M., & Saldaña, J. (2014). Qualitative Data Analysis: A Methods Sourcebook (3rd ed.). SAGE Publications, Thousand Oaks.

Pencheva-Hadhziradeva, P. (2025). What is Virtual Communication and How to Improve it?. Digital Educational Technologies, 2(2), 137–142.

Purvanova, R. K., & Bono, J. E. (2009). Transformational Leadership in Context: Face-to-Face vs. Virtual Teams. The Leadership Quarterly, 20(3), 346-357.

Putra, A. R., & Arifin, S. (2021). Supply Chain Management Optimization in the Manufacturing Industry through Digital Transformation: The Role of Big Data, Artificial Intelligence, and the Internet of Things. Journal of Social Science Studies, 1(2), 161-166.

Putra, A. R., Arifin, S., & Darmawan , D. (2024). Gamification-Based Learning that Preserves Cooperation and Empathy Among Employees. International Journal of Service Science, Management, Engineering, and Technology, 5(1), 43–50. Retrieved from https://ejournalisse.com/index.php/isse/article/view/229

Rojak, J. A. (2024). Government Policy in Improving Human Resource Competencies Based on Digital Technology. Bulletin of Science, Technology and Society, 3(2), 1–8.

Roman, A. V., Van Wart, M., Wang, X., Liu, C., Kim, J. H., & McCarthy, A. (2018). Defining E-Leadership as Competence in ICT-Mediated Communications: An Exploratory Assessment. Public Administration Review, 78(6), 862-874.

Saldaña, J. (2015). The Coding Manual for Qualitative Researchers (3rd ed.). SAGE Publications, Thousand Oaks.

Schwarzmüller, T., Brosi, P., Duman, D., & Welpe, I. M. (2018). How does the Digital Transformation Affect Organizations? Key Themes and their Implications for Interdisciplinary Research. Management Revu, 29(2), 114-138.

Sheninger, E. (2014). Digital Leadership: Changing Paradigms for Changing Times. Corwin Press, Thousand Oaks.

Shin, Y., Kim, M., Choi, J. N., & Lee, S. H. (2012). Does Group Multi-Tasking Help or Hurt Group Performance? The Role of Communication Technology Use and Shared Mental Models. Journal of Business and Psychology, 27(3), 339-350.

Silverman, D. (2016). Qualitative Research (4th ed.). SAGE Publications, Los Angeles.

Subramaniam, L. (2025). Redefining Team Management in It-Driven Environments: Blending Accountability with Empowerment. International Journal of Leading Research Publication, 6(9), 1-6.

Triono, B., Darmawan, D., Djaelani, M., Safitri, F. S. A., & Masithoh, N. (2025). How Digitalization Reshapes Labor and Task Architecture in the Manufacturing Sector. International Journal of Service Science, Management, Engineering, and Technology, 7(2), 11–16.

Tshabalala, B., & Bussin, M. H. R. (2025). Maintaining Inclusive Leadership in a Virtual Work Environment. SA Journal of Human Resource Management, 23, 1-16.

van Manen, M. (2016). Researching Lived Experience: Human Science for an Action Sensitive Pedagogy (2nd ed.). Routledge, New York.

Wagan, S. M., & Sidra, S. (2025). Remote Work Management. Brazilian Journal of Operations & Production Management, 22(3), 2526–2526.

Wang, X., Wei, X., Wart, M. V., McCarthy, A., Liu, C., Kim, S., & Ready, D. H. (2022). The Role of E-Leadership in ICT Utilization: A Project Management Perspective. Information Technology & Management, 24(2), 99–113.

Warin, A. K., & D. Darmawan. (2024). Fostering Adaptive Employees: The Importance of Continuous Feedback in HR Development, Bulletin of Science, Technology and Society, 3(3), 27-34.