The Influencing Factors and Enhancement Pathways for Employee Performance Under Remote Work Modalities

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Abstract:

With the continuous advancement of digital transformation and the increasing maturity of technological infrastructure, remote work is gradually shifting from an emergency work arrangement driven by the pandemic to a sustainable and institutionalized human resource management model at the organizational level. The expansion of the remote working model brings flexibility and resilience to organizational operations, while also posing new challenges and requirements for traditional performance management. This article takes the perspective of human resource management as the starting point and focuses on the identification of influencing factors of employee performance and the exploration of improvement paths in the remote work context. Through a systematic review of core Chinese and English literature in the past five years, and in combination with variables such as job characteristics, collaboration forms, and individual differences, a performance impact framework covering the individual level, organizational mechanisms, and external environment was constructed. The research finds that selfmanagement ability, digital skills, organizational support and technological accessibility are the key factors affecting remote performance, while job nature and collaboration intensity, as moderating variables, significantly affect the differences in performance responses. Based on these findings, this paper proposes a multi-dimensional performance optimization strategy including a dynamic evaluation mechanism, structured interaction framework, promotion transparency and development guidance. This research not only helps to deepen the understanding of the remote performance generation mechanism but also provides theoretical support and practical reference for enterprises to build a scientific and highly adaptable performance management system.

Keywords: Remote work; performance management; self-management ability; digital skills; organizational support.

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1. Introduction

As the once crowded offices and meeting rooms are gradually replaced by avatars at both ends of the screen, remote work has quietly evolved from a temporary solution to a regular operation mode for many enterprises, especially showing a continuous expansion trend in knowledge-intensive positions. Meanwhile, while enterprises are pursuing flexible allocation of human resources and enhancing organizational resilience, they also have to confront new management challenges, among which the most core one is the issue of performance management. In the context of remote working, employees lack face-to-face supervision mechanisms, and collaboration efficiency is limited by online platforms and technological tools, in addition, individual psychological states and family environments have also become important variables affecting performance. As a result, in the context of remote working, the performance of employees no longer solely relies on traditional job responsibilities and Key Performance Indicator (KPI) constraints but rather presents a more complex and diverse influence structure.

At present, research on remote working performance is constantly enriching. Some scholars emphasize the decisive role of self-management ability in task completion and time control, while some studies also point out that the availability and proficiency of digital collaboration tools directly affect the efficiency of information transmission and the level of team collaboration. Moreover, organizational support has also been proven to have a significant effect on alleviating employees' sense of loneliness and enhancing their work motivation. However, there are still deficiencies in the existing studies, such as a lack of systematic exploration of the interaction effects of multiple factors, the performance response differences brought about by the differences in job attributes are ignored, and there is a lack of in-depth analysis of the behavioral adjustment mechanism at the employee level.

Against this background, this study takes the remote working situation as the starting point and from the perspective of human resource management, systematically identifies the key factors that affect employee performance, and further, explores multi-level performance optimization strategies. The research will combine literature analysis, questionnaire surveys and typical enterprise cases to construct an analytical framework covering individuals, organizations and the external environment, with the aim of providing theoretical support and practical suggestions for enterprises to optimize the remote performance management mechanism.

The full text will present the following contents in sequence: First, introduce the research background and

significance, then analyze the main influencing factors of employee performance, followed by proposing feasible improvement paths and countermeasure suggestions, and finally summarize the research conclusions and propose future directions for deepening.

2. Influencing Factors of Employee Performance

2.1 Individual-Level Factors: Self-Regulation, Skills, and Mindset

In a remote working environment, the performance of employees is influenced by multiple factors, including both individual management capabilities and psychological states, as well as external variables such as organizational support, technical conditions, and job characteristics. This multi-dimensional influence mechanism makes performance no longer solely determined by job responsibilities and work achievements but forms a complex interactive system in remote scenarios. Specifically, an employee's own time management ability, mastery of technical tools, and adaptability to remote situations constitute the intrinsic basis of performance.

Self-management ability is generally regarded as one of the core variables affecting remote performance [1]. Due to the lack of immediate supervision in a remote environment, employees must rely on self-regulation to complete task allocation and time control. Employees who master time management strategies such as the Pomodoro Technique perform better in terms of task concentration and delivery efficiency. On the contrary, the lack of boundary management ability can easily lead to a mixture of work and life, which in turn affects work status and performance levels. Furthermore, if employees show weak stress tolerance when facing long periods of solitude or lack of feedback, their attention is easily disturbed, thereby reducing the quality of task completion [2].

At the technical level, digital skills also play a key role. Remote working is highly dependent on collaboration platforms and task tools such as Zoom, Microsoft Teams or DingTalk. Unskilled technical operations will prolong the task flow time, increase communication barriers and affect the overall collaboration efficiency. However, what affects performance is not only the skills themselves, but also technological accessibility - such as network stability, device compatibility, etc. Even if employees possess excellent skills, their performance will be restricted if the environment they are in fails to provide stable technical support [3].

The work motivation and mindset of employees are also

factors that cannot be ignored. Employees who adapt to remote mode usually demonstrate greater autonomy and goal orientation, but over time, long-term lack of face-to-face social interaction, positive feedback and organizational belonging, may lead to a decline in motivation [4]. Especially in a home environment with frequent household distractions and limited space, employees are more likely to experience emotional fatigue and fluctuations in efficiency. Therefore, mental state not only affects performance as an independent variable but may also indirectly link other factors through moderating effects.

2.2 Organizational and Environmental Support

Further, the external organizational system (organizational management mechanism) has an institutional shaping effect on employee performance. In a remote working context, clear goal setting, such as Objectives and Key Results (OKR), frequent progress feedback, and an effective task assignment mechanism help maintain team direction consistency. On the contrary, management alienation and lack of communication frequency often led to problems such as goal deviation, repetitive work, and ambiguous responsibilities [5]. Furthermore, whether an organization can provide a stable network and flexible technical tool support also directly affects the continuity and synergy of employees' task advancement [6].

Meanwhile, environmental factors also constitute an important source of performance differences. For instance, whether there is dedicated office space, whether family members support remote work, and whether there are social resources (such as shared workstations) available to supplement the office space will all have a substantial impact on employees' concentration and psychological state [7]. Especially for jobs that require a quiet environment and concentrated thinking, such as program development and financial modeling, home distractions often become an unavoidable constraint.

2.3 Job Nature and Team Collaboration

There are significant differences in the requirements for remote adaptability among different positions. The nature of the Job directly determines the performance of remote working. For instance, transactional positions with high standardization and low collaboration dependence (such as customer service) are more likely to maintain stable output in a remote environment. For positions that highly rely on creativity and team collaboration (such as R&D and design), there are problems of rising communication costs and limited inspiration stimulation [8].

Meanwhile, team structure and collaboration density are also mediating factors for performance changes. In highly collaborative teams, if remote tools fail to meet the demands of real-time communication, it can easily lead to information delays, task mismatch and decision-making lag, thereby indirectly lowering performance [9].

In conclusion, the performance of remote working employees is subject to the interaction of multiple internal and external factors, covering multiple dimensions such as individual behavior, organizational mechanisms, and technical environments. Understanding this multi-dimensional influence structure helps lay a theoretical foundation for subsequently proposing more targeted performance improvement strategies.

3. Pathways for Performance Enhancement in Remote Work

3.1 Organizational Strategies for Enhancing Remote Performance

To address the challenge of performance fluctuations in remote work scenarios, the organizational level must establish a clearer, more flexible and fully technologically supported management mechanism. To begin with, a clear goal-oriented mechanism is the foundation for improving performance [10]. Adopting results-oriented performance frameworks, such as the OKR system, can help employees clarify the positioning of their tasks within the overall goals of the team and the organization. Combining agile communication routines, such as daily meetings and weekly reviews, can enhance the transparency and consistency of task execution [11].

In addition, the organization should increase investment in technical support. The efficiency of remote working highly depends on the integration and stability of the tool system. Enterprises can provide an integrated collaboration platform, such as suite tools that combine instant messaging, task tracking, and file sharing functions to reduce cross-platform collaboration friction [12]. Furthermore, remote work subsidies should be established to support employees' network, office equipment and software and hardware upgrades, in order to ensure the fairness of the basic technical environment.

Last but not least, in terms of cultural mechanisms, organizations should strengthen emotional connections and the construction of a sense of belonging for remote employees. This includes regularly conducting virtual team-building activities, enhancing leadership visibility and opening feedback channels, so as to bridge the psychological distance caused by the lack of physical space.

3.2 Employee-Oriented Approaches to Self-En-

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hancement

At the employee level, the key to improving performance lies in strengthening their self-management ability and emotional regulation ability. Specifically, first and foremost, carrying out targeted self-management training is essential. The content can cover time management techniques, priority planning, task breakdown and cycle tracking, etc. [13]. By guiding employees to master strategies such as the Pomodoro technique and the 90/20 focus cycle, it becomes easier to enhance their concentration and task completion rate.

Moreover, organizations should provide digital literacy workshops to help employees improve their proficiency in remote working platforms and tools [2]. This can not only reduce the obstacles to using tools, but also enhance employees' sense of control over their own output. The course arrangement should include modules such as information screening, online communication etiquette, and data integration skills, which are of significant value especially for older employees.

Meanwhile, for the common problems of motivation fluctuations and loneliness in remote mode, emotional support mechanisms should be established [6]. Organizations should encourage employees to set fixed working hours and dedicated office areas to enhance the sense of ceremony in daily life. Psychological support hotlines, remote counseling resources, etc. can also be provided in order to help employees internalize psychological resilience.

3.3 External and Environmental Supports

Beyond organizational efforts, resource linkage from the external environment is also an important guarantee for remote performance improvement. On the one hand, the friendliness of an employee's family environment directly affects their attention maintenance and task advancement [2]. Family boundary agreements are an effective way of coordination. Employees can agree on "Do Not Disturb" rules with family members during working hours and strive to establish relatively independent office areas at the same time.

On the other hand, hybrid working resource networks can be established between enterprises and communities to provide shared office spaces or temporary meeting spaces for employees in need [4]. This not only helps solve the problem of an unsatisfactory home environment, but also brings cognitive updates by switching office scenarios, alleviating the monotony and fatigue of long-term home work.

In addition, public policies can also build a more favorable external support system for remote working for employees and enterprises through forms such as tax breaks,

network subsidies, and technical training funding. Only through the joint efforts of multiple parties can the stability and improvement of remote performance be truly achieved.

Overall, the improvement path for remote working performance should be based on a three-dimensional interaction of "organizational support - employee empowerment - external environment collaboration". Although each layer of the plan is independent, nevertheless, they essentially revolve around the same core: how to stimulate employees' self-discipline and output motivation through system design, tool configuration and humanistic care in the absence of physical control and real-time interaction. To ensure that the transformation into remote working enters the deep-water zone, this systematic project requires continuous optimization and dynamic adjustment.

4. Challenges and Countermeasures

4.1 Key Challenges

In the remote work scenario, the challenges faced by performance management present complex characteristics that are different from those of traditional office forms. To begin with, performance evaluation fairness has become a controversial topic. Due to the lack of face-to-face supervision and immediate feedback for online employees, their efforts and work behaviors are not easily fully identified. Thus, if a uniform evaluation standard is adopted, it may lead to a decline in employees' sense of identification and further affect the foundation of organizational trust. Moreover, cohesion within teams is also vulnerable to weakening. In the absence of daily interaction and informal communication, teamwork and tacit understanding within a team decline, and the communication cost rises. As a result, problems such as limited task advancement efficiency, unbalanced collaborative rhythm, project delays and ambiguous responsibilities are more likely to occur. In addition, career development opportunities have also been suppressed to a certain extent. Remote working reduces the visibility of contribution of employees in the organization, especially in contexts lacking presentation channels and feedback mechanisms, where individual development paths become less clear. Consequently, expectations of promotion opportunities also weaken accordingly, and the medium and long-term development motivation of employees may thus be affected.

4.2 Practical Strategies

Facing the unique challenges of performance management in the remote work environment, organizations need to reshape the management framework from multiple dimensions. Direct observation and immediate feedback in the traditional office mode are difficult to achieve in the remote environment. This requires people to carry out systematic innovation in performance evaluation, team collaboration, and career development paths.

At the performance evaluation level, a more comprehensive evaluation system should be established. In Remote work, relying solely on result-oriented KPIs has become insufficient. People need to incorporate process-oriented metrics to comprehensively measure the contributions of employees. For example, metrics such as the quality of participation in online meetings, the cross-departmental collaboration effect, and the problem-solving speed can more accurately reflect the working ability in a remote environment. Through multi-dimensional data collection and analysis, subjective bias can be reduced to achieve a more objective and fair performance assessment.

For the collaboration mechanism, the organization should strive to build a structured interaction platform to overcome the isolation effect brought about by geographical dispersion. Establish a mentor system to help new entrants integrate into the remote work culture; Organize virtual project collaboration regularly to enhance the tacit understanding and connection among team members; and Plan cross-functional activities to break down departmental barriers and promote organizational knowledge flow. These well-designed interaction mechanisms, though lightweight in form, can significantly enhance the cohesion and synergy efficiency of the remote team.

In terms of career development, promotion transparency and growth guidance in a remote environment are particularly crucial. The organization should establish clear competency models and promotion criteria to enable employees to accurately grasp their own development directions even when they are not in the office. By using digital tools to record work achievements and growth trajectories, and regularly holding online achievement showcases, remote employees are provided with opportunities to showcase their value. These measures not only strengthened employees' trust in the organization but also stimulated the intrinsic motivation for self-directed learning and growth. Essentially, the current challenge does not stem from the remote work model itself, but from the mismatch between the traditional management mindset and the new work patterns. Through deliberate management innovation and collaboration optimization, the organization can achieve more inclusive and efficient performance management in the remote environment, while cultivating employees long-term sense of belonging and loyalty. Build a sustainable organizational ecosystem.

5. Conclusion

With the continuous deepening of digital transformation, remote work has gradually evolved from a temporary arrangement to a regular mechanism in enterprise operations. Against this background, both the logic and practice of performance management are undergoing profound changes. Compared with the traditional office environment, performance in remote scenarios is jointly influenced by more variables including individual capability, organizational system, technological infrastructure and external environment.

This study, from the perspective of human resource management, analyzes the main influencing factors of employee performance in the remote work scenario. Research indicates that individual characteristics such as self-management ability, digital skills and work motivation constitute the intrinsic basis for performance formation. Meanwhile, institutional arrangements such as organizational mechanism and communication structure also play a significant role in the remote environment. Furthermore, job characteristics such as job nature and collaboration intensity have further intensified the differentiated trend of performance response.

Based on this, this study proposes multi-level performance optimization strategies. Specifically, building a dynamic evaluation mechanism, improving the structured interaction framework, strengthening technological support, enhancing promotion transparency, and providing clear development guidance. These strategies emphasize the reconstruction of a performance management system that is adapted to remote scenarios from both individual and organizational dimensions.

There are still several gaps in the current research on remote performance. On the one hand, empirical support for multivariate interaction relationships is still insufficient and further quantitative research is needed. On the other hand, adaptation strategies in different industries or organizational forms have not yet been systematically identified. Therefore, future research can combine empirical methods, such as questionnaire survey or case interview, to explore the performance impact mechanism in different contexts, and attempt to construct more targeted models and scalable frameworks.

In conclusion, remote work not only changes the spatial form of work but also promotes the systematic reconstruction of the traditional management paradigm. The impact it has triggered is not only reflected in the physical relocation of office locations, but also in fundamental changes in multiple dimensions such as management concepts, performance evaluations, organizational communication and employee motivation. The traditional management

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approach that relies on supervision and process control appears inadequate in remote scenarios. On the contrary, performance management logic that relies more on goal orientation, trust mechanisms and autonomous drive has begun to become mainstream.

During this transformation process, organizations need to shift from a task-centered management paradigm to a systematic design oriented towards outcomes and the quality of collaboration. This requires managers not only to focus on what employees have accomplished, but also to pay attention to their value creation and situational adaptability during the collaborative process. At the same time, how to build organizational cohesion, maintain employee engagement, and ensure the clarity and accessibility of development paths in the absence of face-to-face communication has also become the key to the sustainability of the performance management system.

Therefore, only by achieving in-depth interaction at the levels of concept renewal, mechanism reshaping and resource integration can organizations achieve a dynamic balance of efficiency, fairness and incentives in the remote working environment and truly unleash the long-term potential of employee performance.

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