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1. Introduction

US remote workers have increased to over 50% due to COVID-19. This rapid progress presents unforeseen and significant problems for many individuals and organizations. After two surveys, the Upwork Future Workforce Report concluded that over 50% of Americans telecommute. Remote employment wows 56% of recruiters. Minimizing commutes, meetings, and professional distractions helped them succeed. Technical issues are the largest, but they should fade. 33% of recruitment managers said remote work increased productivity, while others said it harmed it. More remote workers are expected by 61.9% of recruitment managers (Ozimek, 2020). Technology impacts remote worker performance assessment, and this study examines performance measuring methods. It analyses how firms might manage and evaluate remote workers to increase productivity.

2. Role of Technology in Appraising the Performance of Remote Workers

Information and communication technology has changed our work, enabling us to work from anywhere. Flexible employment may improve work-life balance, professional autonomy, and communication. Remote e-working has increased, especially among experts and those with intermediate skill levels who prefer working remotely. Remote work may boost job satisfaction and devotion but can also lead to isolation, lack of social support, and worse well-being (Charalampous et al., 2019). The COVID-19 epidemic has compelled some companies to implement remote working techniques, namely working from home. Employers have embraced the concept of remote work possibilities for workers, particularly those in professional occupations.

Nevertheless, obstacles such as excessive workload, isolation, and the issue of maintaining work-life balance might impede the implementation. E-performance assessment is a viable alternative, although it poses difficulties in situations with limited internet access. Notwithstanding these difficulties, the implementation of work-from-home techniques is unavoidable as a result of the resurgence of the pandemic (Ntsiful, Popesko and Kwarteng, 2020). Performance evaluation is a structured procedure that emphasizes enhancing performance, fostering employee growth, and promoting motivation by establishing goals. It has developed into a comprehensive method that aids in efficiently managing people and teams to attain elevated levels of organizational performance. The phrase "performance appraisal" has transformed into many terms, such as

personal development review, performance review & development, performance contract & development review, and performance management system (Cappelli and Conyon, 2018). Organizations must decide whether their assessment method is mainly used for evaluation or growth. Employers may encounter obstacles to implementing remote work owing to apprehension about unfamiliar territory and the need for a comprehensive supervision style. To cultivate remote team managers, managers need to exchange their expertise, pinpoint optimal strategies, and delve into matters concerning performance management (De Vincenzi et al., 2022). Supervisors may learn the method of interpreting successful performance via mastery modelling. Integrating appraisals into performance management systems is necessary to implement strategic goals. Conventional evaluation techniques strengthen the bond between supervisors and subordinates, squander resources, and create distinct communication challenges. Engagement may be enhanced via participative decision-making, provided sufficient supervisor support (Stewart-Birch, 2024).

Companies like Buffer and Trello use innovative solutions to monitor and measure productivity. Buffer uses tools like Time Doctor to track task time, improving workflows and team performance. Trello uses features like due dates, checklists, and progress trackers to monitor project timelines and individual contributions. As companies embrace remote work arrangements, it's essential to implement the right tools and methodologies to accurately evaluate employee performance (Lau, 2024). E-performance evaluation is a technique that leverages the internet and intranet to assess workers' knowledge, abilities, and performance. The process involves establishing performance objectives, offering assistance and evaluation, and evaluating real-time performance. This technique deviates from conventional performance reviews, which include direct contact between workers and supervisors. E-performance assessment and appraisal serve several functions, such as delivering performance feedback, making choices about pay increments, dismissing personnel, establishing objectives, identifying training and development requirements, and promoting performance enhancement. Efficient execution of e-performance assessments is essential for attaining the intended outcomes. If not executed proficiently, both workers and employers may experience adverse consequences. Undervalued individuals may be unjustly promoted, while others may face performance-feedback consequences, such as firing (Ntsiful, Popesko and Kwarteng, 2020).

3. Performance Measurement Techniques

Remote employment requires confidence, like any job. Employers improve supervision to reestablish trust. Modern technology may be used to verify workers' presence, productivity, job status, and quality. Modern remote piecework records labour. Attention tests commonly detect obligation failure. Employee productivity and behaviour may be measured via monitoring (Gould et al., 2023).

The following are performance measurement techniques for remote workers:

3.1 Key Performance Indicators (KPIs)

KPIs measure long-term goals using financial and non-financial variables. All firm-wide operating processes must be established and standardised for an efficient performance assessment system. Practical performance evaluation necessitates process structure, customer expectations, and worldwide competitive adaptation (Velimirović et al., 2019). Demand for knowledge assessment, reporting, and dissemination has increased. Let study and knowledge create value. Mapping knowledge resources and investing in formal training and knowledge management systems help companies estimate value (Breunig and Hydle, 2011). Performance assessment includes intangibles. Knowledge and learning investments do not boost organisational performance. Therefore, intellectual capital statements and competence reports disappoint. Researchers have examined performance indicators, intangible resource accounting standards, and intellectual capital guidelines. Shared information replaces measurement to increase company value (Bakewell et al., 2018). Technology, flexible hours, and remote work boost knowledge worker productivity. Millennials also promoted real-time performance management data and feedback. Knowledge workers have fewer industrial measurements than manufacturing, construction, healthcare, and education workers. No optimal performance KPI complicates labour productivity measurement. No office worker productivity KPI exists; multi-factor and multi-dimensional methods are needed. Standardised performance, emotional state, self-assessment, bio-physical measurement, work data, and observed behaviour may estimate productivity (Bortoluzzi et al., 2018).

3.2 Objectives and Key Results (OKRs)

OKRs differ from performance assessment methods set by senior executives and are transmitted down to operations. Top-down KPIs reward staff who meet targets with cash. Instead, OKRs enable teams and individuals to pick their priorities as long as they coincide with top-level OKRs.

OKRs are driven by internal, non-monetary motivations. OKRs emphasise attention and devotion, teamwork synchronisation and synergy, responsibility monitoring, and extraordinary performance expansion. OKRs will be tested for performance assessment and practical usage (Rompheo, 2023). Remote employment has increased during the last decade, spurred by the COVID-19 epidemic. Remote workers are happy with their new jobs, yet many struggle owing to inexperience and unpreparedness. Businesses must acquire skills to reduce digital and remote work constraints and build a strong feeling of belonging to guarantee remote work's long-term survival, well-being, participation, and efficiency (Tramontano, Grant and Clarke, 2021). Managers must evaluate workers' different skills to give assistance and customised solutions. Organisations must actively include workers in goal-setting to unite teams around a common aim. The OKRs framework may assist in reaching this goal, but it needs company-wide changes (Stray et al., 2022).

3.3 Self-Assessment

Many employees and companies have believed that remote work will continue considerably, even after the need to work from home due to health concerns has diminished. The insights gained from the pandemic about working from home (WFH) also inform the development of efficient WFH policies and long-term remote assignments for strategic organisational purposes after the epidemic subsides (Yarberry and Sims, 2021). The critical enquiries of significance to employers and workers include whether workers regard the shift to working from home (WFH) as a bad or good experience, whether WFH is less or more demanding than the traditional workplace, and whether workers need a distinct form of supervision to flourish in a remote setting. Remote studying is intricate as it encompasses both professional and personal dimensions of life. Perceived productivity and creativity, meaning and interest in life, life stress, and health all saw considerable changes, although in different directions (George et al., 2021).

3.4 Performance Reviews

As a result of the rapid advancement of digital technology and information and communication technology, businesses have been obliged to use remote labour. This is especially true in response to the COVID-19 pandemic (Sull, Sull, and Bersin, 2020). For workers to be able to govern their behaviour, which ultimately results in enhanced psychological well-being and increased workplace engagement, self-leadership, which can be assessed by establishing targets and evaluating oneself, is fundamental. On the other hand, it has a detrimental effect on stress levels,

but it has a beneficial effect on levels of productivity and engagement at work. For the effective adoption of an environmentally conscious remote work system, which is anticipated to provide sound effects, it is essential to have support from upper-level management as well as a flexible organisational policy. Remote work has been used by organizations to improve operational efficiency and create flexibility, yet this has resulted in issues for the organizations' preexisting processes, procedures, capacities, and infrastructures (Galanti et al., 2021).

4. Performance Appraisal Tools

Performance evaluation is an essential procedure for firms to assess the accomplishments and skills of their personnel to promote growth and progress. To mitigate uncertainty, firms have adopted strategies such as deferring assessment cycles or reducing wage increases (Nitika and Arora, 2020).

The following are performance measurement techniques for remote workers:

4.1 Management by Objectives (MBOs)

MBO objectives and tasks were utilized to assess teams' project performance. MBO is a well-known classical management method praised by researchers and practitioners. Effective management tactics may motivate employees, including communicating goals, providing autonomy in developing and implementing solutions, cultivating self-regulation, and conducting frequent team-based performance reviews. MBO methods motivate and dedicate people to their duties and corporate objectives (Burdzinska and Flak, 2016). Modern management emphasises people and their possessions and builds on history. COVID-19 has expedited the shift to remote work, highlighting the need for effective management. Personnel management, work-family conflict, and workplace comfort have been studied. However, lack of personal supervision, distraction, and supervisor assistance are issues. Organisations must understand these issues to adapt and implement remote work (Chychun et al., 2023).

4.2 Assessment Centre Method

A rise in interest in remote evaluation has been created due to the COVID-19 epidemic, which has suspended crucial services. Independent researchers investigated the reliability and validity of remote measures, testing firms made available resources and advice to adapt tests to this modality, professional organisations issued guidelines on the ethical conduct of teleassessments, and testing companies themselves gave resources and recommendations (Mulligan and Ayoub, 2023). Online

research has grown substantially in the last three decades, providing convenient and cost-effective access to various populations. This technique has been especially pertinent during the COVID-19 epidemic when the limitations of physical separation were of utmost importance. A collection on "Remote Assessment" in PLOS ONE has successfully reviewed and published ten articles. Several scholarly articles examine the COVID-19 lockdown and explore the use of remote assessment techniques when individuals are primarily isolated and physical presence in clinics, and study participants are limited. The lockdown provides a chance to explore remote evaluation in different health fields using diverse methodologies (Bardram, 2023).

4.3 Continuous Performance Feedback

Performance feedback is an extensively researched approach in performance management, with organizational behaviour management (OBM) playing a significant role. Organizational behaviour management (OBM) allows for analysing performance feedback by investigating the effective implementation of interventions to bring about essential changes in employee behaviour and enhance performance. To tackle this issue, businesses advocate for continuous performance feedback, which involves consistently giving performance-related information throughout the year (Giamos, Doucet and Léger, 2023). Remote employment affects the formation and quality of leader-member exchange relationships and feedback settings by altering communication modalities. It decreases in-person interactions and necessitates more reliance on information communication technology. This might result in a lack of clarity and confusion about one's responsibilities and expectations. Dyadic interactions may use communication mechanisms that are either synchronous or asynchronous, depending on their functionality. Leaders struggle to provide feedback when they are physically separated from their subordinates. However, subordinates are more likely to actively seek feedback if they feel empowered and confident in their leader (Jansson and Kangas, 2024).

4.4 Graphic Rating Scale

Graphical rating scales are often used in organizations for performance evaluations since they can be easily adjusted to different sorts of jobs and require little training expenses. These scales evaluate a worker's performance in terms of quality, efficiency in using information plans and working hours, and job expertise, which encompasses knowledge acquisition, practice, and on-the-job training. In addition, rating scales may need help in assessing structural benefits since they may not effectively capture the whole worth of a worker, resulting in the exclusion of performance

indicators (Vuong and Nguyen, 2022). Remote work provides many advantages, including financial savings, heightened workplace contentment, enhanced productivity, and environmental benefits. Remote employment may result in alterations to one's work-life balance, heightened work-life discord, and a diminished sense of dedication to the principles and culture of the firm. Hence, it is crucial to maintain a harmonious equilibrium between these benefits and drawbacks (Ingusci et al., 2022).

5. Conclusion

Performance assessment promotes work-life balance, autonomy, and communication for remote workers. Overwork, loneliness, and work-life balance may hinder its implementation. Buffer and Trello use innovative productivity tools, but e-performance evaluation is essential. Technology can verify remote workers' presence, productivity, job status, and quality, giving them confidence. KPIs, OKRs, self-assessments, and performance evaluations let remote workers track performance. KPIs measure objective performance, whereas OKRs link individual performance to company goals. Performance reviews set objectives, whereas self-evaluations encourage reflection and accountability. These strategies can build a reliable remote team performance monitoring system.

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