

المجلة الدولية للبحوث العلمية

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الإصدار (3)، العدد (5)

## Strategic Adaptations and Long-Term Organizational Change in Technology Companies Post-Pandemic: An Analysis of Remote Work Implementation and its Implications

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#### **Abstract**

This research is investigating the impact of the remote work revolution intensified by the COVID-19 pandemic in the technology companies. The research is comprehensively evaluating that how remote work affects organizational operations, employee adaptability, productivity, and cost savings. It is aiming is for understanding the long-term sustainability of remote work practices and their effect on organizational flexibility and employee satisfaction. The research is employing a qualitative approach, integrating interviews, surveys, and empirical data analysis. It is focusing on the demographic and technological factors that influence work adaptability and the overall experience of remote work.

The key findings of this research indicate that while remote work has increased productivity and reduced costs for many organizations but some challenges such as maintaining employee engagement and managing remote communication persist. Despite these challenges, the research is suggesting that remote work can be a



المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

sustainable practice if organizations tailor their strategies to address individual and organizational needs effectively.

The study contributes to the academic and professional discourse on remote work especially in technology companies, and it is providing actionable insights for organizations to enhance their remote work policies and practices, ultimately it is aiming to optimize both employee well-being and organizational performance in a post-pandemic world.

**Keywords:** Remote Work, Organizational Performance, Employee Adaptability, Productivity, Technology Companies.

#### 1. Introduction

The remote work revolution that accompanied the COVID-19 pandemic of 2020 has attracted a number of discourses and debates from professionals and scholar. Remote working are technical terms used to describe a paradigm shift and flexibility in the workplace environment in which workers are allowed to work from home or any other location outside their organization's physical workspace (Colak & Saridogan, 2023). The demand of online remote working from home significantly increased in 2020/21 due to the Covid-19 pandemic. This unforeseen situation has forced individuals and organizations to rapidly train employees and adopt the use of on-line working styles, seeking to maintain the same level of productivity as working from the office. The remote work revolution across the globe offers a new brave workplace characterized by the digitalization of work contents, use of multiple communication tools, collaborative networks largely decided by power elites in the organization (Gephart, 2002). The global landscape of work is undergoing a seismic shift as organizations and individuals embrace the remote revolution.

The study aims to conduct a comprehensive investigation into the multifaceted impacts of the remote work revolution within technology companies, exploring its



# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

effects on various aspects such as organizational operations, employee adaptability, productivity, and cost savings. Through a meticulous examination of demographic and technological factors influencing adaptability, related challenges, and their subsequent impact on the overall enjoyment of remote work, the research seeks to provide valuable insights into the long-term sustainability of remote work arrangements in the technological landscape. By addressing these crucial aspects, the study endeavors to contribute to a nuanced understanding of the evolving dynamics of remote work, offering actionable findings for organizations navigating the contemporary work landscape. The hypotheses formulated within the study serve as focused research questions aimed at exploring specific dimensions of remote work within technology companies, including the relationship between adaptability and demographic/technological factors, the impact of related challenges on adaptability and enjoyment of remote work, as well as the anticipated effects of remote work adoption on organizational flexibility, productivity, and cost savings. Through systematic analysis and empirical investigation, the study seeks to uncover insights that will inform strategic decision-making and facilitate effective implementation of remote work practices within technology-driven environments.

#### 1.1. Objectives of the Study

In the wake of unprecedented societal shifts and technological advancements, the landscape of work has undergone a profound evolution, with remote work emerging as a prominent feature of contemporary organizational structures. Against this backdrop, the objectives of the study are crafted to illuminate key facets of the remote work revolution, spanning organizational operations, employee dynamics, productivity enhancements, and broader implications for the technological workforce. To achieve the aims of the study, the following objectives have been formulated:



المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

- Investigating the Specific Impacts of Remote Work on Technology Companies Post-Pandemic
- Assessing Challenges and Opportunities Associated with Remote Work Adoption in Technology-Driven Environments.
- Examining the Effectiveness of Remote Work in Enhancing Productivity and Cost Savings.
- Assessing the Long-Term Sustainability of Remote Work within Technology Companies.

#### 1.2. Purpose and Significance

The purpose of the study on the remote work revolution is to comprehensively examine the impacts of remote work within technology companies, with a focus on understanding its effects on organizational operations, employee adaptability, productivity, and cost savings. By conducting a rigorous analysis of demographic and technological factors influencing adaptability, as well as related challenges and their impact on the overall enjoyment of remote work, the study aims to provide valuable insights into the long-term sustainability of remote work arrangements in the technological landscape. Ultimately, the research seeks to contribute to a nuanced understanding of the evolving dynamics of remote work, offering actionable findings that can guide organizations in navigating the contemporary work landscape more effectively.

Conducting research on the aforementioned aspects of the remote work revolution holds paramount significance in contemporary organizational contexts. Firstly, as remote work continues to gain traction globally, especially within technology companies, understanding its multifaceted impacts is imperative for organizations striving to optimize their operational efficiency and maintain competitive advantage. By delving into areas such as organizational operations, employee adaptability,



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

productivity, and cost savings, this research can offer invaluable insights into the nuanced dynamics of remote work within the specific context of technology-driven environments. Also, equips organizational leaders with actionable intelligence to tailor remote work policies and practices, thereby fostering an environment conducive to enhanced employee satisfaction, performance, and overall organizational success. Moreover, research on the remote work revolution contributes to the broader scholarly discourse surrounding the future of work. By elucidating the intricate interplay between remote work dynamics, organizational operations, and workforce productivity, this research not only advances theoretical understanding but also informs practical interventions aimed at shaping the contours of tomorrow's work landscape. Ultimately, such research endeavors play a pivotal role in driving organizational innovation, fostering resilience, and facilitating sustainable growth amidst the ever-evolving dynamics of the modern workplace.

#### 2. Literature Review

The evolution of remote work, while not novel in concept, has experienced notable acceleration in recent years owing to advancements in technology and shifts in socioeconomic landscapes. Traditionally associated with freelance work or specific sectors like software development, remote work has gained prominence across various industries. A pivotal catalyst behind this revolution is technological innovation, especially evident in communication and collaboration tools. Platforms such as Zoom, Slack, and Microsoft Teams have played a crucial role in fostering seamless virtual interactions, effectively transcending geographical constraints and enhancing remote teamwork dynamics.

An extensive review of existing literature on the remote work model underscores its significant focus on evaluating its implications for companies, encompassing areas such as employee mental health, cost-effectiveness, organizational functions, role restructuring, and challenges in recruitment and onboarding processes,



# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

communication dynamics, and online training methodologies. However, no research specifically investigating these effects in technology companies has been found after the 2019 pandemic (Colak & Saridogan, 2023). The genesis of the remote work revolution lies at the intersection of technological progress and evolving societal norms. The COVID-19 pandemic induced a major shift in the prevalence of remote and hybrid work arrangements, acting as a catalyst that propelled organizations to swiftly pivot towards remote work setups and prompted a reevaluation of traditional business models (Christiaensen et al., 2021). Beyond the pandemic context, the notion of workplace comfort, often framed as "working for yourself" or more colloquially, "being able to work on your terms," is increasingly valued by employees. Remote work facilitates this comfort by affording individuals the autonomy to curate their work environments, typically leading to heightened relaxation and productivity compared to traditional office settings, as evidenced by studies showcasing the efficacy of off-site workspaces, particularly those tailored to employees' preferences. Enabling conditions for remote and online work include the expanding accessibility of the internet, smartphones, associated technologies, software advancements, cloud computing solutions, the rise of global online service providers, and the convenience of conducting business transactions and shopping digitally (Wheatley et al., 2021). However, this monumental transition occurred abruptly and without comprehensive anticipation of the potential challenges inherent in prolonged remote work arrangements (Kowal et al., 2020). To comprehensively assess the impact of remote work, its sustainability, and its future trajectory within organizational contexts, various research endeavors have been scrutinized, as elucidated below:

Colak and Saridogan (2023) investigate the repercussions of adopting the remote work model or transitioning to remote work on managers and executives within technology companies, aiming to gain a better understanding of its effects. The study



# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

sample consisted of nine executives and managers currently employed across five distinct multinational technology firms. Employing a qualitative research approach, the study utilized a blend of interviews, document review, and observation techniques. Preceding the formulation of inquiry, significant aspects highlighted in the literature review included workplace transformations, communication virtualization, employee well-being and work-life equilibrium, and talent acquisition. The study's findings divulge diverse impacts of remote work on organizational operations within technology companies, noting challenges in functional roles, responsibilities, and employee engagement. Notable trends include the widespread adoption of online evaluation systems and meetings. The research underscores the imperative for adaptive and tailored strategies within remote work environments. The practice of Working from Home (WFH) has emerged as a significant workplace trend across both developed and developing nations, prompting discussions regarding its potential continuation or cessation. Agba et al. (2022) investigate telecommuting and the remote work revolution, specifically exploring whether employees exhibit greater effectiveness and productivity while operating from home. To address this inquiry, the research employs a descriptive research design that incorporates multiple perspectives and utilizes the content analysis approach. The findings suggest that working from home enhances workers' productivity and commitment to their roles. Additionally, the study identifies various factors influencing the performance of remote workers, including physical accessibility, job nature, worker competence, organizational policies, internet connectivity, conducive work environments, consistent power supply, and support from organizational leaders and colleagues. The research advocates for a contingency approach that balances remote work options with hybrid models, emphasizing the need for adaptable strategies to effectively manage virtual workforces and sustain employee performance. Nieuwerburgh (2022) delves into the ramifications of the remote work revolution on residential and commercial real estate



# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

values, as well as its implications for the future of urban landscapes. The study also examines its effects on productivity, innovation, local public finances, and the environment. Employing both an asset pricing approach and an urban economics perspective, the study offers complementary insights. The findings underscore the importance of synthesizing these two branches to comprehensively understand and quantify the short- and long-term impacts of remote work on real estate values and urban development. The study highlights how the COVID-19 pandemic and its aftermath have reshaped the real estate investment landscape, both in the short and long term. Additionally, it suggests that as more data becomes available and refined, it will prove increasingly valuable for policy analysis. Popovici and Popovici (2020) scrutinize contemporary trends and obstacles in organizational strategies pertaining to remote work. They delve into the diverse motivations and limitations associated with remote work, considering perspectives from both organizational and individual standpoints. Their analysis extends to identifying the key components essential for the effective adoption of remote work and delving into its psychological ramifications on employees. The researchers propose actionable strategies aimed at mitigating documented risks and challenges while amplifying the numerous benefits remote work can offer within organizational contexts. Productivity, a paramount consideration for both employers and employees, has garnered significant attention in research endeavors. Contrary to initial concerns, remote work has exhibited the capacity to augment productivity. Aloisi and Stefano's (2020) comprehensive analysis elucidates that the remote work revolution is propelled by a confluence of factors, with technology serving as a cornerstone. Advanced communication tools, collaborative platforms, and cloud-based solutions have effectively eradicated the geographical barriers of traditional work settings, facilitating seamless collaboration among teams operating from disparate locations.



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

The evolving composition of the workforce, characterized by the emergence of the millennial generation and Generation Z, has significantly propelled the remote work movement. These demographic cohorts prioritize flexibility, work-life balance, and purpose-driven employment, thereby driving the adoption of remote work arrangements. Organizations that embrace remote work can effectively attract and retain top talent by aligning with the preferences of these emerging professionals. Consequently, the remote work revolution mandates a reevaluation of conventional business paradigms. Companies are reconceptualizing their physical presence, with many opting for hybrid models that integrate remote and in-person work settings. Real estate expenses, once a substantial overhead, are being scrutinized as remote work diminishes the need for expansive office spaces (Doellgast & Wagner, 2022). Furthermore, remote work significantly impacts employee engagement and organizational culture. Businesses are refining their core values and mission statements to adapt to the evolving work landscape. Additionally, strategies for teambuilding and employee recognition are being revamped to cultivate a sense of belonging within a dispersed workforce. Remote work has emerged as a transformative catalyst for reshaping the organizational landscape. comprehensive literature review delves into the evolutionary trajectory, challenges, opportunities, and broader implications of remote work, spanning diverse disciplinary perspectives. The advantages of remote work are manifold. From an organizational standpoint, it presents opportunities for cost savings on physical office spaces, heightened productivity resulting from reduced commuting times, and expanded access to a global talent pool. However, researchers have also identified several challenges associated with remote work for both organizations and employees. These critical issues include the impact on employee stress and wellbeing (Saladino et al., 2020), workforce management dynamics and managerial implications (Ipsen et al., 2022), family and household-related challenges including work-family conflict (Prikhidko et al., 2020), and aspects of employee motivation



# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

and engagement (Galanti et al., 2021). In response, companies are reconceptualizing their physical office spaces as collaborative hubs rather than mandatory workstations. Flexible work arrangements, such as hybrid models integrating remote and in-person work, are increasingly prevalent. The efficacy of remote work hinges on effective leadership, communication, and the cultivation of trust within organizations. Managers are tasked with adapting their management styles to effectively oversee remote teams, prioritizing clear goal-setting, regular feedback mechanisms, and autonomy. Furthermore, fostering a culture of transparency and inclusivity is paramount to sustaining employee engagement and fostering cohesion within remote work environments.

Despite the extensive literature on remote work's implications across various sectors, a notable research gap exists regarding its specific influence on technology company's post-pandemic. While existing studies provide insights into remote work's broader effects, there is a dearth of research examining its unique challenges and opportunities within technology-driven environments. This underscores the need for targeted investigations that explore factors such as communication dynamics, talent acquisition strategies, and organizational operations in the context of remote work. Such research endeavors are essential for gaining a comprehensive understanding of remote work's impact on technology companies and informing effective strategies for navigating the evolving work landscape.

#### 3. Data and Methodology

This study's methodology part offers a thorough framework for examining the impact of remote work revolution on technological companies. It describes the study strategy, formulation of the hypotheses, methods for gathering data, and analytical approaches that will be used to decipher the complexity of this vital component of healthcare information sharing.



المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

#### 3.1. Research Design

The primary survey was conducted to gather information for the research, utilizing primary sources. To assess the impact of remote work revolution on the technological companies and the growth of individuals a questionnaire was designed containing both open-ended and close-ended questions.

In order to examine the significance correlation, and relationship between the remote work adoption and different factors which may impact the individuals in an organization, several hypotheses were developed for this research:

H<sub>1</sub>: There is a dominant relation between the adoption of remote work in an organization before COVID-19 and its sustainability in long run.

H<sub>2</sub>: There is a significant relationship between remote work and the productivity of employee.

H<sub>3</sub>: There is a significant relationship between remote work and commuting time for employees.

H<sub>4</sub>: There is a significant relationship between remote work and focus of employees on tasks.

H<sub>5</sub>: There is a significant relationship between remote work and stress level of employees.

H<sub>6</sub>: There is a significant relationship between remote work and cost saving for organization.

These hypotheses were formulated to explore and establish the potential connections between the various factors and remote work resolution before and after COVID-19 in organization.

- 1. Do you have prior experience with remote work?
- 2. What is your profession?



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

- 3. Has your organization adopted remote work before COVID-19?
- 4. What communication tools and platforms does your organization utilize for remote work?
- 5. How satisfied are you with the features of the software/tools used for remote work?
- 6. How would you rate your adaptability to working from home on a scale of 1 to 5?
- 7. How do your internet connection impact your remote work?
- 8. List down the distractions which impact your productivity while working from home?
- 9. How often do you face challenges related to lack of resources (e.g., poor internet, lack of access to necessary documents) while working from home?
- 10. How enjoyable do you find working from home?
- 11. How has the adoption of remote work impacted your organization's approach to decision-making processes?
- 12. Have you observed any changes in project management methodologies since the implementation of remote work?
- 13. Have you noticed any changes in the agility of organizational operations following the adoption of remote work?
- 14. How do you perceive the impact of remote work on employee productivity within your organization?
- 15.Do you believe that remote work has reduced commuting times for employees?
- 16.Do you observe an increased focus on tasks among remote workers compared to in-office employees?
- 17.To what extent do you believe remote work has impacted employee stress levels within your organization?



المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

- 18. Overall, do you believe that remote work adoption has led to cost savings for your organization?
- 19.Do you believe remote work has facilitated access to a global talent pool for your organization?
- 20. How sustainable do you believe remote work is for your organization in the long term?
- 21. What benefits do you anticipate from continuing remote work practices in the future?
- 22. What are the disadvantages of remote work for an individual?

#### 3.2. Data Analysis

The data analysis process will be comprehensive, employing graphical, reliability and statistical methods to draw meaningful conclusions from our dataset. Moreover, the data collected from the survey is analyzed by leveraging the thematic analysis feature of NVivo 14, a premier software for qualitative data analysis and SPSS software. The capacities of these softwares made it possible to analyze the impression of challenges/distraction and benefits present in the survey responses, and by creating codes for identifying the recurrent themes and trends.

#### 3.2.1. Graphical Analysis

The data gathered will be represented graphically using graphic analysis. To show patterns and trends in the data, methods including scatterplots, histograms, and bar charts will be used. The survey findings will be presented using these visualizations in a straightforward and succinct manner, highlighting any correlations or associations between variables.



المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

#### 3.2.2. Reliability Analysis

#### 3.2.3. Cronbach's Alpha

Cronbach's Alpha analyzes our survey instrument's internal consistency further. It assesses how well each scale's individual components measure the key ideas in the context of our study. Cronbach's Alpha assists us in ensuring that our survey questions accurately reflect the underlying constructs. This internal consistency may be measured using the Cronbach's Alpha mathematical equation, which enhances the reliability of our results.

$$\alpha = \frac{N\overline{c}}{\overline{v} + (N-1)\overline{c}}$$

Where,

N = No. of items

 $\bar{c}$  = Average covariance between pair of items

 $\bar{v} = Average variance.$ 

#### 3.2.4. Average Inter-Item Correlation

It evaluates the scale's coherence by examining how survey items are related to one another. Each item's degree of relationship to other items is evaluated. This average correlation is calculated using the mathematical formula, which provides information about scale dependability.

#### 3.2.5. Statistical Analysis

Statistical analysis will give a thorough assessment of the data, aiming to spot patterns, correlations, and significance. The following methods will be covered:

#### 3.2.6. Chi-Square Test

the Chi-Square Test is frequently used in this study to see whether observed values significantly differ from predicted values. This test examines the association between



المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

two categorical variables within the context of remote work revolution in technology companies. The Chi-Square equation allows us to measure this relationship, which is denoted by  $\chi 2$ , as follows:

$$\chi 2 = \frac{\sum (0i - Ei)2}{Ei}$$

Where O<sub>i</sub> is the dataset's actual value and E<sub>i</sub> is its forecasted value.

#### 3.3. Econometric Analysis

#### 3.3.1.Logistic Regression

A well-known statistical method used to model the likelihood of values for a certain dependent variable is parametric regression, or logistic regression. Stated differently, it is a method of data analysis that makes use of mathematical models to determine the interdependence of components and forecast the correlation between two or more data factors. There are typically just a limited number of possible outcomes for the forecasts or predictions produced by logistic regression, such as yes or no.

In statistics, the relationship between regressand and regressors is modeled using LR, a linear approach.

LR = Y = 
$$\beta_0$$
 +  $\beta_1$ Productivity +  $\beta_2$ Commuting time  
+  $\beta_3$ Focus on tasks +  $\beta_4$ Stress level +  $\beta_5$ Cost Saving

A logistic model is a statistical representation that uses the log odds of an event as a linear combination of multiple explanatory variables to estimate the likelihood that one will occur.

$$\label{eq:logistic Regression} \begin{array}{l} \text{Logistic Regression} \ = \ P(Y=1) = \frac{e^{\beta o + \beta 1x1 + \beta 2x2....}}{1 - e^{\beta o + \beta 1x1 + \beta 2x2....}} \\ \text{OR} \end{array}$$

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المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

$$p = \frac{e^x}{1 - e^x}$$

Where:

Y = Remote work revolution.

 $\beta_0$  is the intercept.

 $\beta_1$ ,  $\beta_2$ ,  $\beta_3$ ,  $\beta_4$  and  $\beta_5$  are the coefficients for the independent variables.  $\epsilon$  represents the error term.

#### 4. Results and Discussions

#### 4.1. Graphical Analysis

The survey contains both open-ended and close-ended questions. These questions were incorporated into the survey to gauge the functionality of remote work and predict its viability in the future. Results drawn from responses of different question is provided along with the question, and the interpretation of the result is discussed along with them.

The data from the study indicates that a significant proportion of the participants, specifically 73%, had already implemented remote work in their business prior to the COVID-19 epidemic. In contrast, 27% of respondents said that they had witnessed its application during the epidemic but had not encountered such acceptance prior to it. According to this statistic, a considerable number of firms have adopted remote work arrangements in response to the changing socio-economic context, highlighting the substantial shift in remote work practices brought about by the pandemic.

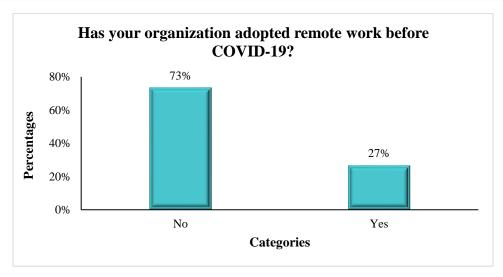


# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)



Hierarchy chart illustrated in Figure 1 is explaining the recurring themes about the impact of internet connection in the remote work setting, and showing that the speed of internet and reliable internet connection are the leading challenges associated with remote work. Further, it can also be observed in the word cloud depicted in Figure 2, word cloud of the particular dataset is expressing the most popular words about the impact of internet on remote work.

#### How do your internet connection impact your remote work?

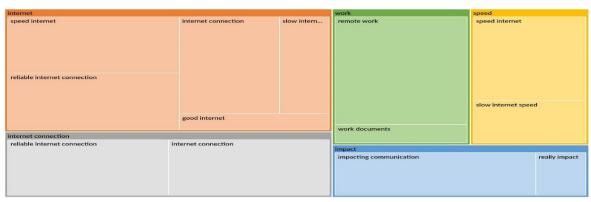


Figure (1): Hierarchy Chart of Codes (Q9)



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

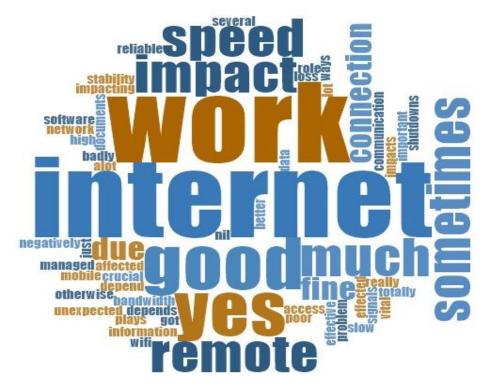


Figure (2): Word Cloud of Q9

Based on the analysis, Zoom and Google Meet are the most popular options for remote work communication among the participants. In particular, Zoom is preferred by 53% of respondents overall, whereas Google Meet is preferred by 40%. Furthermore, a small percentage of respondents—3%—use both platforms at the same time. The aforementioned data highlights the broad acceptance and appeal of digital communication tools in the context of distant work. This trend emphasizes how important dependable and strong platforms like Zoom and Google Meet are for enabling professionals in a variety of corporate contexts to collaborate and communicate virtually in an efficient manner.

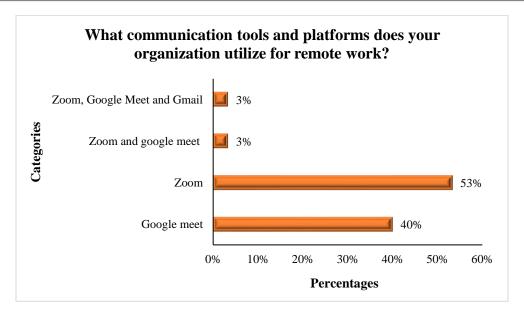


# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)



The Hierarchy chart in Figure 3 is formed to illustrate the identified themes and codes from survey responses to question 10. The frequent distractions affecting productivity while working from home include internet disruption, home disturbance, and home environment, communication barriers or gaps, and domestic work. These were some highlighted and recurring distractions that decreased the productivity while working from home. Further, the emphasize on commonalities among all the participants are highlighted by word cloud portrayed in Figure 4 in which the most prominent word 'internet' is suggested to be the most common problem.



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

List down the distractions which impact your productivity while working from home.

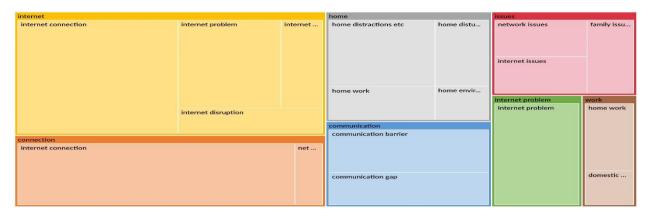


Figure (3): Hierarchy Chart of Codes (Q10)



Figure (4): Word Cloud of Q10



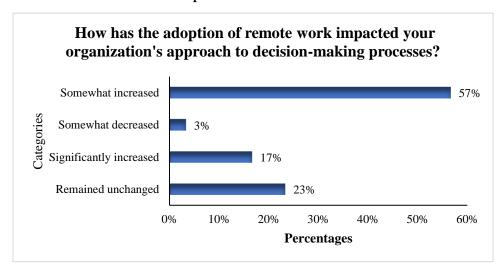
## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

Approximately 57% of respondents perceive that the implementation of remote work has somewhat intensified its influence on their organization's decision-making procedures. Meanwhile, according to 17% of respondents, this impact has significantly increased. On the other hand, according to 23% of respondents, the implementation of remote work has not affected their organization's decision-making procedures. Additionally, according to 3% of replies, decision-making procedures have decreased as a result of the use of remote work. These findings highlight the various ways that remote work affects the dynamics of corporate decision-making, highlighting the need for tailored strategies to take into account different organizational circumstances and preferences.



Following the adoption of remote work, 53% of respondents reported observing changes in management methodologies within their organizations. On the other hand, 13% of respondents gave a negative reaction, indicating no modifications to management practices. Furthermore, 33% of participants expressed ambiguity about any modifications to management techniques, indicating a deficiency of elucidation or cognizance concerning variations in managerial strategies. These results highlight the different perspectives and experiences people have about the modifications to



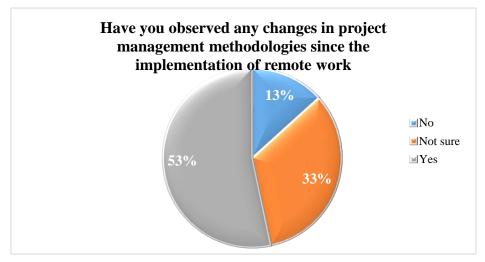
# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

management procedures brought about by the use of remote work. It is imperative for firms to comprehend these impressions if they are to modify their management techniques in a way that facilitates remote work settings and guarantees peak operational efficiency.



The results of the survey showed that 47% of respondents thought that staff productivity had grown considerably as a result of the adoption of remote work with an additional 10% expressing a belief in a significant increase. On the other hand, 20% of respondents said that there was no appreciable difference in productivity levels when adopting remote work. Nonetheless, a significant portion of 24% expressed the opinion that employees' productivity was negatively impacted by working remotely. These results shed light on the various viewpoints regarding the connection between productivity and remote work in corporate environments. Although a significant proportion of participants observe an increase in productivity, a minority perspective indicates that obstacles or constraints related to the adoption of remote work could have contributed to a decline in output. Comprehending these divergent viewpoints is crucial for enterprises seeking to maximize efficiency in



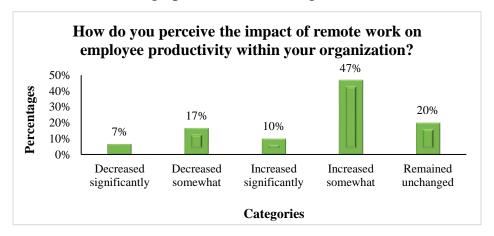
# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

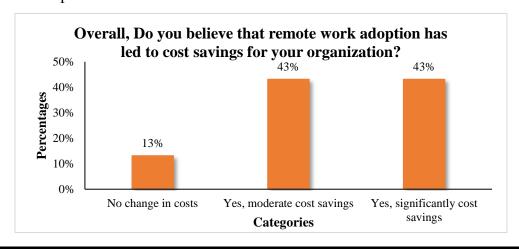
May 2024

الإصدار (3)، العدد (5)

telecommuting settings, requiring customized approaches and measures to tackle detected obstacles and leverage perceived advantages.



Regarding the claim that working remotely has reduced costs for their company, almost 43% of all respondents indicated a moderate level of agreement, and an equal number, 43%, indicated a considerable level of agreement. On the other hand, 13% of the replies expressed the opinion that the adoption of remote work has not resulted in a change in expenses. These results demonstrate the range of opinions on the financial effects of remote labor in corporate settings. The substantial and noteworthy consensus among participants highlights the alleged advantages of telecommuting in terms of expenses, indicating a wider recognition of its capacity to maximize resource distribution and operational effectiveness.





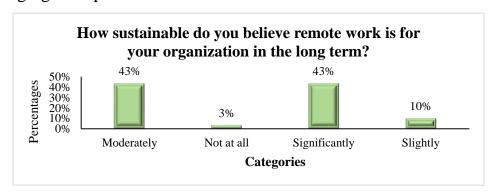
## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

About 43 percent of the professionals surveyed believe that working remotely is very sustainable for their company, and another forty-three percent believe that working remotely is only somewhat sustainable for their company over the long run. Ten percent of respondents, or a minority, believe that remote work is marginally sustainable for the company over the long haul. These results highlight the diverse viewpoints on the viability of remote labor in corporate settings. It is a reflection of the continuous paradigm shift brought about by the revolution in remote work, whereby businesses are beginning to assess the practicality of remote work arrangements as essential elements of their long-term plans. This dynamic indicates an increasing awareness of the possible advantages and difficulties of working remotely, leading companies to move toward customized strategies that strike a balance between operational effectiveness and worker productivity and well-being in the changing workplace.



The subsequent question is comprised of the prospective benefits expected from the adoption of remote work practice continually. The hierarchy chart of the responses to this question is constructed in Figure 5 which represents the repeated codes in the survey context and revealed three most prominent benefits including work-life balance and cost saving in terms of travelling and others. Moreover, the word frequency cloud is also illustrated in Figure 6 to show the dominant words in favor of work from home practice.



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

What benefits do you anticipate from continuing remote work practices in the future?

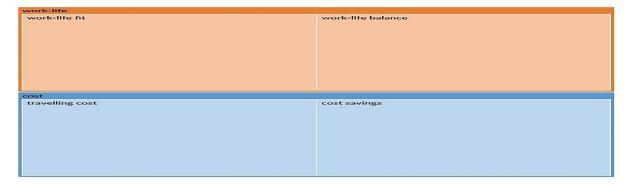


Figure (5): Hierarchy Chart of codes (Q23)



Figure (6): Word Cloud of Q23



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

The disadvantages and challenges of working from home can be discussed by analyzing the survey response. Conducting a thematic analysis of the responses to question 24, it has revealed that most of the disadvantages and challenges pertain to supervision lack, motivation lack, separating work files, mental and physical health issues, eyesight problems, and increased stress levels. However, the output of the word cloud feature has presented the most recurrent drawbacks of the remote working practice including health issues and distractions during the work.

#### What are the disadvantages of remote work for an individual?



Figure (7): Hierarchy Chart of Codes (Q24)



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)



Figure (8): Word Cloud of Q24

#### 4.2. Reliability Analysis

#### 4.2.1. Cronbach's Alpha

The reliability of data set is determined by computing the Cronbach's alpha coefficient, yielding a result of 0.259 for 19 items and suggesting that question in the form do not have relatively high consistency and reliability. Also, this value shows that individual questions are not closely related and stable for obtaining the favorable conclusion.



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

Table (1): Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	No. of Items	
0.236	0.259	19	

#### **4.2.2.** Average Inter-Item Correlation

The results shown below depict that the items in analysis are not correlated. The average inter-item correlation of a data set shown in Table (2 is 0.018 which shows that the individual questions in a questionnaire do not give consistent and appropriate results.

Table (2): Summary Item Statistics

	Mean	Minimum	Maximum	Range	Maximum / Minimum	Variance	No. of Items
Inter-Item Correlations	0.018	-0.515	0.597	1.112	-1.160	0.054	19

#### 4.3. Statistical Analysis

#### 4.3.1.Chi-Square Test

## H<sub>1</sub>: There is a dominant relation between the adoption of remote work in an organization before COVID-19 and its sustainability in long run.

To check the association between the responses for the adoption of remote work and its sustainability in long run the chi-square test has been applied on two questions. If there is an association between the responses then it can be concluded that remote work adoption is sustainable for the organization in long run.

The hypothesis to apply this test are mentioned below:

H<sub>0</sub>: There is no association between the adoption of remote work and sustainability in long run.



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

H<sub>1</sub>: There is association between the adoption of remote work and sustainability in long run.

The results depict that the value of Pearson Chi-Square in most of the questions obtained p-value is greater than 0.05 so it can be concluded that there is no significant association between the remote work adoption in an organization and its sustainable for the organization in long run.

Table (3): Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	2.990 <sup>a</sup>	3	0.393
Likelihood Ratio	2.885	3	0.410
Linear-by-Linear Association	0.355	1	0.551
N of Valid Cases	30		

a. 6 cells (75.0%) have expected count less than 5. The minimum expected count is .27.

#### 4.4. Econometric Analysis

#### 4.4.1.Logistic Regression Results

As logistic regression assesses the strength of a relationship between one regressand and regressor(s). It also helps to predict value of explained variable from one or more independent variable. In this area, the relationship between remote work and different factors has determined. For this, the hypothesis which is set for each question is mentioned below:

H<sub>2</sub>: There is a significant relationship between remote work and the productivity of employee.

H<sub>3</sub>: There is a significant relationship between remote work and commuting time for employees.

H<sub>4</sub>: There is a significant relationship between remote work and focus of employees on tasks.



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

H<sub>5</sub>: There is a significant relationship between remote work and stress level of employees.

H<sub>6</sub>: There is a significant relationship between remote work and cost saving for organization.

The analysis of the data presented in the table indicates that there is no discernible significant relationship between the adoption of remote work and several key factors pertinent to organizational dynamics and individual well-being. These factors encompass employee productivity, commuting time, focus, stress levels, and cost savings for the organization. The statistical analysis conducted, as evidenced by the obtained p-values exceeding the threshold of 0.05 for all variables included in the regression, suggests a lack of statistically significant correlation between remote work adoption and these specific aspects. This implies that the introduction or prevalence of remote work arrangements within organizations does not appear to have a substantial impact on employee productivity levels, commuting times, ability to maintain focus, experienced stress levels, or overall cost savings for the organization. While remote work has increasingly become a prevalent practice, particularly in light of technological advancements and shifting socio-economic landscapes, these findings suggest that its adoption may not inherently translate into significant alterations in the aforementioned factors. Therefore, it is concluded that no factor has any significant relation with remote work adoption.

Consequently, further exploration and nuanced examination may be warranted to ascertain the underlying dynamics at play and to identify potential moderating variables or contextual nuances that could influence the relationship between remote work adoption and organizational and individual outcomes. Such insights are crucial for informing strategic decision-making processes and optimizing the implementation and management of remote work policies within organizations.



# المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

Moreover, Hosmer and Lemeshow goodness of test determined that the estimated model is good fitted with p value > 0.05. In addition, Nagelkerke R Square for this model is obtained 20.4% indicates that the regressors in the model can explain a portion of variance in the criterion variable significantly.

Table (4): Results of Logistic Regression

	В	S.E.	Wald	df	Sig.	Exp(B)
VAR00016	-0.094	0.492	0.036	1	0.849	0.910
VAR00017	-0.832	0.734	1.287	1	0.257	0.435
VAR00018	-0.157	0.428	0.134	1	0.714	0.855
VAR00019	-0.128	0.538	0.057	1	0.812	0.880
VAR00020	-0.717	0.824	0.758	1	0.384	0.488
Constant	2.585	3.151	0.673	1	0.412	13.263
Model Summary						
-2 Log likeli	-2 Log likelihood = 30.270					
Cox & Snell R Square = 0.140						
Nagelkerke R Square = 0.204						
Hosmer and Lemeshow Test						
Chi-square = 9.143 Sig. = 0.243						



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

#### 5. Conclusion

The COVID-19 pandemic of 2020 has prompted a revolution in distant work that has generated a lot of professional discussion and scholarly debate. During this time, there was an increase in the demand for internet remote work from home, which required both individuals and enterprises to quickly adapt in order to maintain productivity levels that were on par with those attained in traditional office settings. This research aims to thoroughly examine the diverse implications of the remote work revolution on technology businesses, with a particular emphasis on how it affects organizational operations, employee flexibility, productivity, and cost savings. This study explores the particular effects of remote work on technologydriven workplaces after the pandemic using a primary survey that was used to collect pertinent data and included both open-ended and closed-ended questions. NVivo 14 was used for thematic analysis of the data, and SPSS software was used for statistical analysis unveil compelling insights. The use of graphic representations highlights the prevalence of remote work adoption before the pandemic and how it improved decision-making and project management techniques while also improving employee productivity, attention, and stress reduction. Furthermore, a sizable segment of participants conveys assurance regarding the enduring viability of remote employment for their organizations. Statistical investigations, however, show a lack of association between the adoption of remote work and important factors like focus, productivity, stress levels and commute time of employees and organizational cost savings. A Nagelkerke R Square score indicates that the regressors in the model significantly explain a portion of the variation in the criterion variable, and the goodness-of-fit test validates the suitability of the estimated model. These results highlight how complicated and subtle the effects of the remote work revolution are, indicating the need for more research and development to help guide strategic choices and improve remote work procedures in tech firms.



المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

#### 6. Recommendation

Organizations must adapt and encourage innovation in order to thrive in this revolutionary environment as the concept of remote work continues to reshape the nature of contemporary employment. Prioritizing investments in a strong technology infrastructure that facilitates seamless coordination and communication between geographically distributed teams is crucial for preserving a competitive advantage. Here, a set of recommendations is presented which aimed at enhancing the analysis of the impact of the remote work revolution on technological enterprises and the personal development of individuals.

- **1. Extension to Macroeconomic Variables**: Consider expanding the analysis to incorporate macroeconomic factors that remote work resolutions may impact. This extension would offer a more comprehensive comprehension of how distant labor affects economic indicators on a more extensive level.
- **2. Increase Observations**: To increase the number of observations in the study, raise the sample size. This would increase the analysis's statistical power and enable the drawing of more trustworthy findings regarding the effects of remote labor.
- **3. Incorporate More Organizational Factors**: Include additional organizational factors that may be affected by remote work. To give an in-depth understanding of its impact, this could entail looking at factors like team dynamics, communication tactics, leadership philosophies, and organizational culture.
- **4. Conduct Financial Analysis**: Perform financial analysis to evaluate the financial effects of remote employment on technology companies. This analysis might explore into factors like income generation, cost savings, and investment potential related to the use of remote work.
- **5. Evaluate Long-Term Effects**: Examine the long-term impacts of remote work on a range of organizational characteristics, including as customer happiness,



## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

الإصدار (3)، العدد (5)

employee retention, and innovation. Comprehending these enduring consequences is crucial for tactical planning and judgment.

**6. Explore Global Talent Acquisition**: Examine the possibilities for hiring people remotely to expand your skill set globally. Talent acquisition strategies can be informed by evaluating the advantages and difficulties of acquiring talent from different geographic regions, which can also improve organizational competitiveness.

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## المجلة الدولية للبحوث العلمية

Vol. (3), No. (5)

May 2024

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