Industrial Economics Review (KHAZZARTECH)
EISSN: 2588-2341 ISSN:1112-7856
Volume: 15 / N°: 01 (2025)
p 49-72

From Traditional to Virtual: Transformation of Leadership Models in Global Companies (Amazon, IBM, Microsoft, and Google)

Sarah Benlaharche [1*], Salim Lamraoui [2]

[1] COFIFAS Research Laboratory, University of Oum El Bouaghi, (Algeria), Benlaharche.sarah@univ-oeb.dz

[2] COFIFAS Research Laboratory, University of Oum El Bouaghi, (Algeria), Lamraoui.salim@univ-oeb.dz

***Received*: 22-03-2025** ***Accepted*: 23-05-2025**

Abstract

This research aimed to analyze the concept of virtual leadership in light of technological transformations and globalization, with a focus on how it is applied in global companies. It also seeked to understand the role of virtual leadership and its impact on organizational performance and operational efficiency.

The research was based on the descriptive and analytical approach, reviewing the literature on virtual leadership, along with analyzing case studies of four leading global companies: Amazon, IBM, Microsoft, and Google.

The results showed that virtual leadership is no longer limited to large companies, but has become necessary for various organizations, especially with the increase in remote work. It was also found that the success of virtual leadership depends on a range of factors, such as: the use of effective technology, building trust between team members and enhancing organizational flexibility. The research also confirmed that companies that have embraced virtual leadership have seen improvements in productivity, employee satisfaction, and operational cost savings.

Keywords:
Virtual Leadership;
Operational Efficiency;
Technology;
Leadership Models.

JEL Classification Codes: M15 ; L86.

* **Corresponding Author**

1. INTRODUCTION

In contemporary times, the management leadership model has undergone a major transformation due to technological progress and globalization, especially in the post-Covid-19 era. One of the most prominent of these developments is the emergence of virtual leadership, a concept that has gained a prominent position especially with the increasing adoption of remote work models by organizations. Virtual leadership involves managing and leading geographically dispersed teams, and often relies on digital communication tools to facilitate collaboration and decision-making. This shift is not only a response to technological abundance, but also a strategic approach to leveraging global talent and enhancing organizational resilience.

This research addresses the concept of virtual leadership in the broader context of managerial leadership, where foundational aspects of managerial leadership will be identified, including its definition, methods, theories, and significance. Next, he delves into the details of virtual leadership, addressing its definition, dimensions, benefits, and importance. In the third and final topic, the discussion was further enriched by analyzing a case study of four global companies: Amazon, IBM, Microsoft, and Google, which successfully implemented virtual leadership practices.

Through the previous proposal, the problem of research can be posed as follows:

- What is virtual leadership? What are the most important lessons learned from leading companies in the field of implementing virtual leadership?

In order to answer the research problem, descriptive and analytical approaches were used by describing the basic study variable (virtual leadership), and analyzing the extent to which virtual leadership is applied in leading global companies such as**:** Amazon , IBM**,** Microsoft and Google. In this research, the following basic elements were addressed:

- Administrative leadership;
- Virtual leadership;
- A case study of leading global companies in the field of virtual leadership application.

2. Administrative Leadership

In this section, we will discuss the concept of administrative leadership, administrative leadership styles, theories of administrative leadership, as well as the importance of administrative leadership.

2.1 The concept of administrative leadership

Management leadership is defined as the process of directing and managing an organization or team to achieve specific goals. It encompasses a wide range of activities, including planning, organizing, hiring, directing and controlling, unlike other forms of leadership that may focus on charisma or transformational qualities. Management leadership is often related to the operational aspects of management, with an emphasis on efficiency, structure and process improvement.

The concept of managerial leadership is rooted in the early works of management theorists such as Henry Fayol, who identified the five functions of administrative planning, organization, command , coordination and control , as these functions form the cornerstone of managerial leadership, and

highlight its role in maintaining organizational stability and achieving long-term goals**.**

2.2 Management leadership styles

Management leadership styles or styles vary depending on the leader's approach to decision-making, communication, and team management. Some of the most common styles include:

- **Authocratic leadership:** This style is characterized by centralized decision-making, where the leader retains most of the power and control. While it can be effective in crisis situations, it can stifle creativity and innovation (Lewin, Lippitt, & White, 1939 , p 123).
- **Democratic leadership:** In contrast, democratic leaders engage team members in decision-making processes, foster a collaborative environment, and this pattern is often associated with higher satisfaction and job motivation.
- **Free leadership:** This laissez-faire approach gives staff considerable autonomy, which can be beneficial for highly skilled teams but may lead to a lack of guidance in less experienced groups.
- **Transactional leadership:** This method focuses on the exchange between leaders and subordinates, and often involves rewards for performance. This method is very effective in maintaining order, but it may not inspire long-term commitment.
- **Transformational Leadership:** Transformational leaders inspire and motivate their teams by aligning individual goals with organizational goals, andthis approach is particularly effective in driving change and innovation.

The choice of leadership style depends on the organizational context, team dynamics, and the nature of the tasks at hand. However, in the field of administrative leadership, a balanced approach that includes elements of democratic and transformational methods is recommended to promote both efficiency and innovation.

Figure (01): Administrative Leadership Patterns



Source: Northouse, 2018, p 67

2.3 Theories of administrative leadership

Many theories underpin the practice of managerial leadership, providing frameworks for understanding and implementing effective leadership strategies. Key theories include:

- **Trait theory:** This theory assumes that effective leaders possess certain inherent traits, such as intelligence, self-confidence, and determination.

- **Behavioral theory:** Focusing on what leaders do rather than who they are, this theory classifies leadership behaviors into task-oriented and relationship-oriented approaches, and emphasizes the importance of adaptability in leadership practices (Blake & Mouton, 1964 , p198).
- **Situational Theory:** This theory suggests that the effectiveness of leadership depends on the alignment between the leader's style and the situational context. For example, Fiddler's contingency model emphasizes the need for leaders to match their style with the task structure and team dynamics.
- **Path and Goal Theory:** This theory, developed by Robert House, suggests that leaders should clarify the path to achieving the goal for their followers, provide support and motivation as needed, and emphasize the importance of the leader's flexibility in responding to the needs of followers.
- **Servant leadership theory:** This theory, promoted by Robert Greenleaf, emphasizes the leader's role as a servant of his team, prioritizing the growth and well-being of followers, and is particularly important in fostering a collaborative and ethical organizational culture.

Taken together, these theories highlight the multifaceted nature of managerial leadership, emphasizing the need for leaders to be adaptable, empathetic, and strategic in their approach.

2.4 The importance of administrative leadership

Managerial leadership plays a pivotal role in organizational success, affecting various aspects of performance and culture, andcan be summarized as follows:

- It is considered the primary determinant of the success of administrative organizations through the dynamic role it provides to the administration to achieve its objectives;
- Directing and influencing operations and organizational affairs;
- Driving employees towards the achievement of the overall objective of the organization;
- the use of power as a powerful influence on individuals' perceptions and the administration of justice;
- It has an important organizational role, which is mainly to achieve integration and coordination between the employee and his job.

Besides...

- Providing an organizational climate characterized by constructive human relations and a work environment that enjoys a high degree of excellence, creativity and risk tolerance, which makes the leader able to exercise his leadership tasks easily;
- Achieving a series of mutual responses and cooperation between the leader and the subordinates;
- Represents a real link between working individuals and the organization's future perceptions;
- Organizes and translates all strategies and policies related to the institution;

- Highlighting the strengths that the institution needs and in return working to eliminate the weaknesses that hinder it;
- Taking care of individuals as real strategic resources of the organization through development and training processes;
- Adapting to developments in ways that serve the good of the organization;
- The goal of the presidency is to achieve the overall goal of the institution while the leadership tries to take into account the interests and objectives of individuals.

3. Virtual leadership

In this section, we will discuss the concept of virtual leadership, the dimensions of virtual leadership, the benefits of virtual leadership and the importance of virtual leadership.

3.1 The concept of virtual leadership

Virtual leadership is a branch of administrative leadership that focuses on managing and leading teams in a virtual environment. It involves the use of digital communication tools, such as video conferencing, e-mail, and collaborative platforms, to facilitate interaction and decision-making among geographically dispersed team members. The progress of virtual leadership is closely linked to advances in technology and the globalization of business processes, which has enabled organizations to benefit from a variety of talents and work across time zones.

Unlike traditional leadership, virtual leadership focuses more on communication, building trust, and adaptability. Leaders must face the challenges of limited face-to-face interaction, cultural

differences, and potential technological barriers. The effectiveness of virtual leadership is often measured by the leader's ability to maintain team cohesion, enhance cooperation, and achieve organizational goals despite the physical distance between team members.

3.2 Virtual Leadership Dimensions

The dimensions of virtual leadership include different aspects of leadership behavior and organizational practices that are critical in a virtual environment. These dimensions include:

- Communication: Effective communication is the cornerstone of virtual leadership, as leaders must ensure clarity, redundancy, and inclusiveness in their interactions with team members.
- Trust: Building trust in a virtual environment is difficult due to a lack of physical presence, as virtual leaders must demonstrate reliability, competence, and empathy to foster trust among team members.
- Cultural Sensitivity: In global virtual teams, leaders must be aware of cultural differences and adapt their leadership style to accommodate diverse perspectives and standards of communication.
- Technological proficiency: Virtual leaders must be proficient in using digital tools to manage tasks, monitor progress, and facilitate collaboration, including familiarity with project management software and data analysis platforms.
- Flexibility: The virtual environment often requires leaders to be flexible in their approach, and to accommodate different work schedules, time zones, and individuality.

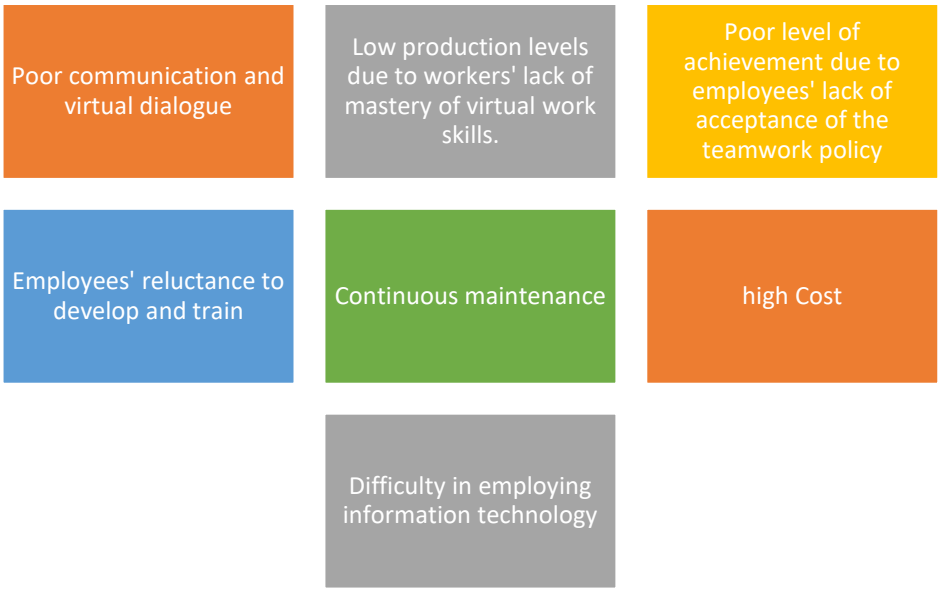
- Emotional Intelligence: Due to the lack of physical cues, virtual leaders must have high emotional intelligence to interpret and respond to the emotional states of their team members, including active listening and the ability to manage one's emotions effectively.
- Clarity of purpose : In a virtual environment, leaders must clearly articulate goals and expectations to ensure alignment and accountability, including setting smart goals (specific, measurable, achievable, relevant, and time-bound) and regularly reviewing progress (Locke & Latham, 2002 , p. 98).

Taken together, these dimensions form the foundation of effective virtual leadership, emphasizing the need for leaders to adapt traditional leadership practices to the unique challenges of the digital environment.

3.3 Obstacles andbenefits of virtual leadership

The application of virtual leadership methods faces several obstacles that can be summarized into seven basic obstacles, which are represented in the following figure:

Figure (02): Obstacles to virtual driving



Source : Greenleaf, 1977, p 77

Adopting virtual leadership provides many benefits to organizations, particularly in the context of remote work and operations across the world. Among these benefits, the following can be mentioned:

- Access to global talent: Virtual leadership enables organizations to recruit and retain talent from different geographic locations, enhancing the diversity of skills and perspectives within the team.
- Cost-efficiency : By reducing the need for physical office space and travel, virtual leadership can reduce operational costs, allowing organizations to allocate resources more effectively.
- Increased flexibility: Virtual teams often work more flexibly in terms of working hours and locations, which

can improve work-life balance and job satisfaction among employees.

- Enhanced productivity: Studies have shown that virtual teams can be more productive due to reduced commuting time and the ability to work in environments that suit individual preferences.
- Innovation: The diversity of virtual teams can foster creativity and innovation, as team members bring different cultural and professional backgrounds to problem-solving and decision-making.
- Environmental sustainability: Virtual leadership reduces the carbon footprint associated with mobility and office operations, in line with CSR goals.
- Scalability : Virtual leadership allows organizations to scale operations more easily, as they are not constrained by physical office spaces or local labor markets.

These benefits underscore the strategic value of virtual leadership in modern organizations, particularly those operating in competitive and dynamic industries.

3.4 The importance of virtual leadership

The importance of virtual leadership in the context of digital transformation and the shift towards remote work is clear, and it has a great importance that can be explained in the following:

- Adapting to technological progress: As organizations increasingly rely on digital tools to communicate and collaborate, virtual leadership becomes necessary to leverage these technologies effectively.
- Globalization: Virtual leadership facilitates the management of global teams, enabling organizations to

operate across borders and time zones without the need for physical transportation.

- Crisis management: The COVID-19 pandemic has highlighted the importance of virtual leadership in managing teams remotely during crises, ensuring business continuity and employee well-being.
- Employee Engagement: Virtual leaders play an important role in keeping employees engaged and motivated in remote environments, and addressing the challenges of isolation and separation.
- Organizational Flexibility: By enhancing adaptability and flexibility, virtual leadership enhances organizational flexibility, enabling companies to respond effectively to market changes and disruptions.
- Competitive Advantage: Organizations that effectively implement virtual leadership practices can gain competitive advantage by optimizing talent utilization, reducing costs, and fostering innovation.

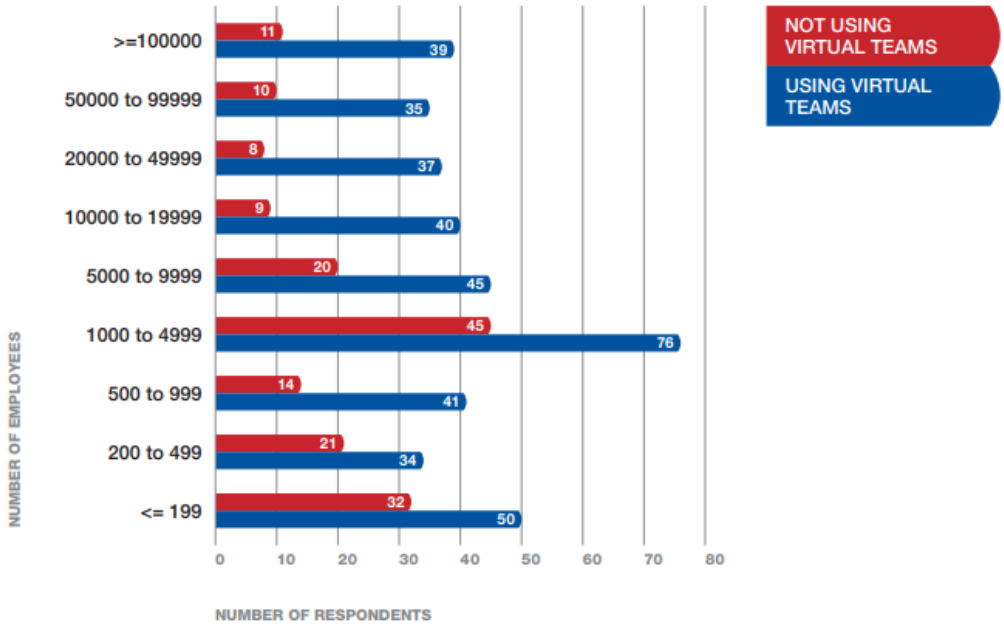
The importance of virtual leadership is reinforced by its alignment with broader trends in the workforce, such as the rise of the gig economy and the growing demand for flexible working arrangements.

4. A case study of leading global companies in the field of virtual leadership application

Before turning to the case studies of global companies, it is worth noting that there is a strong relationship between the use of virtual work teams and the size of the company. The survey conducted by Jeannine Hertel andPatrick Geyer in a study entitled: Virtual Leadership and Team Work , showed that

virtual work teams do not apply only to large global companies or global and multinational organizations that have established branches around the world and operate interconnectedly across multiple interfaces globally. Of course, the larger the company, the more likely it is to operate in many countries, but the survey showed that this is for companies of all sizes, as shown in the following figure:

Figure (03): The relationship between virtual work teams and the size of the company



Source: Jeanni & Geyer, 2014, p 08

While we can say that the percentage of organizations that do not use virtual teams is significantly higher in small companies compared to large ones, we have learned that virtual teams exist regardless of the size of the organization, which is part of the way it works. Therefore, the new leadership approach should be

considered within any company, regardless of its size, especially in small businesses that may have no choice but to employ their teams virtually to maximize cost efficiencies.

The case study of leading global companies in the field of virtual leadership application will now be discussed such as: Amazon, IBM, Microsoft and Google

4.1 Amazon Company

Founded by Jeff Bezos in 1994, Amazon has grown from an online bookstore to one of the world's largest e-commerce and technology companies. Through operations including retail, cloud computing (AWS), artificial intelligence, and logistics, Amazon employs more than 1.3 million people worldwide (Amazon, 2023). The company's success is attributed to its customer-centric approach, innovation, and operational efficiency, supported by a strong leadership culture.

Amazon has been a pioneer in embracing virtual driving practices, particularly through its use of technology and remote work policies, and this can be illustrated in the following key points:

- **Remote work policies:** Amazon has implemented flexible work-from-home policies for many of its corporate employees, leveraging tools such as AWS Chime for communication and collaboration (Amazon, 2021).
- **Global Teams:** Amazon's global operations involve managing teams across different time zones and regions, requiring virtual leadership to coordinate activities and maintain alignment.

- **Technology Integration:** The company uses advanced digital tools, such as AWS WorkDocs for document management and Amazon Connect for customer service, to facilitate virtual collaboration and decision making (Amazon, 2023).
- **Leadership principles:** Amazon's leadership principles, such as “work bias” and “deep diving,” are adapted to default settings, emphasizing the importance of clear communication and data-driven decision-making (Amazon, 2023).
- **Training Programs:** Amazon offers training programs for virtual leaders, focusing on skills such as remote team management, digital communication, and cultural sensitivity (Amazon, 2021).

The impact of Amazon's virtual leadership is evident in several of the following key performance metrics:

- **Employee satisfaction:** In internal surveys, 78% of Amazon remote employees report high job satisfaction, attributed to the flexibility and support provided by virtual leadership (Amazon, 2021).
- **Productivity:** A study of Amazon in 2020 found that remote teams using AWS tools achieved a 15% increase in productivity compared to traditional office teams (Amazon, 2020).
- **Cost savings:** By implementing virtual business policies, Amazon saved nearly $1.3 billion in office-related expenses in 2021, while maintaining operational efficiency (Amazon, 2021).
- **Innovation:** Amazon's virtual teams, particularly those working on AWS and AI projects, have contributed to

more than 80% of the company's new product launches in the past five years (Amazon, 2023).

- **Global reach:** Virtual leadership has enabled Amazon to expand its operations to more than 200 countries, where virtual teams play a key role in market entry and customer support (Amazon, 2023).

These statistics underscore the tangible benefits of virtual leadership in boosting Amazon's performance and competitive position.

4.2 IBM Company

Founded in 1911, IBM is a global technology and consulting company focused on cloud computing, artificial intelligence, and enterprise software, with operations in more than 170 countries and a workforce of about 300,000 employees. IBM is known for its innovation and leadership in the technology sector (IBM, 2023).IBM has a long history of embracing virtual leadership, particularly through remote work initiatives and global team management, and this can be illustrated in the following:

-Remote Entrepreneurship: IBM was one of the first companies to implement large-scale remote work programs, with more than 40% of its workforce working remotely by 2009.

-Digital collaboration tools: IBM uses its own products such as IBM Connections and IBM Watson Workspace to facilitate virtual collaboration and communication between teams (IBM, 2023).

- Global Talent Management: IBM's virtual leadership practices enable the company to manage diverse global teams,

ensuring alignment and coordination across different regions (IBM, 2023).

- Leadership Development: IBM B Programs offers virtual leadership training, focusing on skills such as intercultural communication, remote team management and digital strategy (IBM, 2023).

- **Agile Practices**: IBM integrates agile methodologies into its virtual leadership practices, focusing on iterative development and continuous feedback in remote environments (IBM, 2023).

These practices demonstrate IBM's strategic use of virtual leadership to enhance its operational efficiency and innovation capabilities.

The impact of IBM's virtual leadership is reflected in several of the following KPIs:

- **Employee Retention**: IBM's remote work policies have contributed to a 20% reduction in employee turnover rates, as employees value the flexibility and autonomy that virtual leadership provides (IBM, 2021).

- **Productivity gains**: A study of IBM in 2019 found that remote teams using IBM collaboration tools achieved a 25% increase in productivity compared to traditional office teams (IBM, 2019).

- **Cost efficiency**: By reducing the need for physical office space, IBM saved nearly $500 million in property costs in 2020, while maintaining operational efficiency (IBM, 2020).

- **Innovation Outputs**: IBM's virtual teams have been responsible for more than 60% of the company's patent

filings in the past decade, highlighting the role of virtual leadership in driving innovation (IBM, 2023).

- **Global expansion:** IBM 's virtual leadership practices have enabled the company to expand its operations into new markets, where virtual teams play a critical role in market analysis and customer engagement (IBM, 2023).

These statistics confirm the significant benefits of virtual leadership in enhancing IBM's operational performance and strategic positioning.

4.3 Microsoft Company

Founded in 1975 by Bill Gates and Paul Allen, Microsoft is a global leader in software, cloud computing and artificial intelligence, producing products such as Windows , Office and Azure. Microsoft provides services tomillions of customers around the world and employs more than 220,000 employees (Microsoft, 2023). The company is known for its focus on innovation, customer-centric solutions and strong corporate culture.

Microsoft has embraced virtual leadership as part of its broader digital transformation strategy, which can be illustrated in the following points:

- **Remote work policies**: Microsoft has implemented flexible remote work policies, allowing employees to work from home or in other locations using tools such as Microsoft Teams to communicate and collaborate (Microsoft, 2021).

- **Global Teams**: Microsoft's global operations involve managing teams across different regions, requiring virtual

leadership to ensure alignment and coordination (Microsoft, 2023).

- **Technology Integration**: Microsoft leverages its own products such as Microsoft Teams SharePoint and Azure DevOps to facilitate virtual collaboration and decision-making (Microsoft, 2023).

- **Leadership principles:** Microsoft's leadership principles, such as " Create Clarity " and " Generate Energy," are adapted while emphasizing the importance of clear communication and team motivation (Microsoft, 2023).

- **Training Programs:** Microsoft offers virtual leadership training programs, focusing on skills such as remote team management, digital communication and cultural sensitivity (Microsoft, 2021).

These practices highlight Microsoft's strategic use of virtual leadership to enhance its operational efficiency and innovation capabilities.

The impact of virtual leadership at Microsoft is evident in several of the following key performance metrics:

- **Employee engagement**: According to Microsoft's internal surveys, 82% of the company's remote employees reported high levels of engagement, attributing this to the flexibility and support provided by the company's virtual leadership (Microsoft, 2021).

- **Productivity**: A study conducted by Microsoft in 2020 found that remote teams using Microsoft Teams achieved a 20% increase in productivity compared to traditional office teams (Microsoft, 2020).

- **Cost savings**: By implementing virtual business policies, Microsoft saved nearly $700 million in office-related expenses in 2021, while maintaining operational efficiency (Microsoft, 2021).

- **Innovation**: Microsoft's virtual teams have been responsible for more than 70% of the company's new product launches in the past five years, highlighting the role of virtual leadership in fostering innovation (Microsoft, 2023).

- **Global reach:** Virtual leadership has enabled Microsoft to expand its operations to over 190 countries, where virtual teams play a key role in market entry and customer support (Microsoft, 2023).

These statistics underscore the significant benefits of virtual leadership in enhancing Microsoft's performance and competitive position.

4.4 Google Company

Founded in1998 by Larry Page and Sergey Brin, Google is a global technology company known for its search engine, cloud computing services, and innovative products such as Android andJL Maps. Google has a workforce of more than 150,000 employees, is part of Alphabet Inc., and operates in many countries around the world (Google, 2023). The company is known for its focus on innovation, data-driven decision-making, and collaborative culture.

Google has been at the forefront of virtual leadership, leveraging its technology and culture to effectively manage remote teams, and this can be illustrated in the following:

- **Telecommuting policies:** Google has implemented flexible telecommuting policies, allowing employees to work from home or other locations using tools such as Google Meet and Google Workspace to communicate and collaborate (Google, 2021).

- **Global teams:** Google's global operations involve managing teams across different regions, requiring virtual leadership to ensure alignment and coordination (Google, 2023).

- **Technology Integration**: Google uses its own products, such as Google Meet, Google Drive, and Google Chat to facilitate virtual collaboration and decision-making (Google, 2023).

- **Leadership Principles**: At Google, leadership principles such as “Empower Your Team” and “Be Critical” are adapted to default settings, emphasizing the importance of trust and clear communication (Google, 2023).

- **Training Programs:** Google offers virtual leadership training programs, focusing on skills such as remote team management, digital communication, and cultural sensitivity (Google, 2021).

The impact of virtual leadership at Google is evident in several key performance metrics that can be illustrated in the following:

- **Employee Satisfaction**: According to Google's internal surveys, 85% of the company's remote employees report high job satisfaction, attributed to the flexibility and support provided by virtual leadership (Google, 1,202).

- **Productivity:** A study by Google found in 2020 that remote teams using Google Workspace achieved a 22% increase in productivity compared to traditional office teams (Google, 2020).

- **Cost savings:** By implementing virtual business policies, the company saved nearly $600 million in office-related expenses in 2021, while maintaining operational efficiency (Google, 1,202).

- **Innovation:** The company's virtual teams have been responsible for more than 75% of the company's new product launches in the past five years, highlighting the role of virtual leadership in driving innovation (Google, 2023).

- **Global reach**: Virtual leadership has enabled the company to expand its operations to more than 200 countries, where virtual teams play a key role in market entry and customer support (Google, 2023).

5. Conclusion

By preparing this research, it can be said that administrative leadership provides the foundational framework for effective management, which includes various methods, theories and practices aimed at achieving organizational goals, while virtual leadership, which is considered as an extension of administrative leadership, adapts these principles to the digital age, and leverages technology to manage remote and global teams.

Amazon, IBM, Microsoft and Google case studies illustrate the practical application of virtual leadership in leading global companies, as these organizations have successfully implemented virtual leadership practices, resulting in enhanced

productivity, cost savings, innovation and employee satisfaction. The statistics provided also emphasize the tangible benefits of virtual leadership, highlighting its role as a strategic enabler of organizational success.

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