Navigating the Challenges of Digital Transformation in Global Organisations Strategies for Sustainable Business Growth

Dr.K. Rajamani[1*], Dr.V. Aruna[2]

[1]Associate Professor (Sr. Grade), Mepco School of Management Studies, Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu, India. E-mail: rajamani.pradeep@gmail.com, Orcid: https://orcid.org/0000-0001-5672-0304*

[2]Assistant Professor, Department of Management Studies, St. Joseph's Institute of Technology, OMR, Chennai, Tamil Nadu, India. E- mail: arunasivakumar28@gmail.com. Orcid: https://orcid.org/0009-0009-0859-6439

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Abstract

Digital transformation is necessary for businesses to be sustainable and competitive in the rapidly changing business landscape. But there are various barriers to digital transformation, such as technological, cultural and financial factors. This research examines these obstacles and assesses solutions to these barriers, particularly the effect of digital transformation on key indicators of business growth - revenue, customer satisfaction and market share. This study used a mixed-methods approach with a survey (n = 198) and interviews to get a full picture. Survey data were analysed using descriptive measures (mean, median, standard deviation) and inferential tests (t-tests), while interviews were analysed using content analysis. The main barriers identified include technology (mean = 4.20), culture (mean = 3.85), finance (mean = 4.10) and human resources (mean = 3.95). Differences were observed, including increased technological barriers for the Manufacturing sector than for Services ($t = 2.45$, $p = 0.015$) and increased cultural resistance in Asia than in Europe ($t = 2.78$, $p = 0.007$). The strategies to address these challenges include leadership, training and technological investments. Digital transformation is key to sustainability, and culture/leadership are critical in an age of emerging technologies such as AI and cloud computing. Sustainability integration in digital strategies helps companies adapt to regulatory challenges and build value.

Keywords: Digital Transformation; Business Growth; Technological Barriers; Leadership; Employee Training; Sustainability.

I. INTRODUCTION

Digital transformation refers to the adoption of digital technologies in every business sector, which leads to a radical business model and business operations (Chandratreya, 2024). It is an adventure that involves the utilisation of digital technologies like artificial intelligence (AI), the cloud, big data and automation to enhance efficiency, customer interaction and even create new business opportunities (Adoui, 2025). Digital transformation is not just a buzzword in the global business environment, but it is a need that assists organisations to remain competitive and responsive to market needs (Hess et al., 2016). Digital transformation has become a key factor of success for most organisations as the pace of technological change continues to accelerate, and

organisations move to digital channels (Bayumi et al., 2024).

There are some challenges that companies face during the digital transformation (Daouk, 2025). One of the greatest challenges is technological constraints, which include failure to modernise the current systems or to incorporate new technologies into the current systems. Furthermore, the resistance to change in the organisation may be a barrier to change, and employees who do not want to use new skills or adapt to new procedures may make the change process difficult. Financial shortage is another form of barrier, and companies require a lot of money in the digital efforts, which might not result in a rapid payback (Masoud, 2025). Moreover, there may also be globalisation issues, such as globalisation in terms of regulations and cultures. Lastly, the absence of skills in such disciplines as artificial intelligence, data analytics and cybersecurity also complicates the process of digital transformation (Wang, 2024).

Objectives

RO1: To determine the significant barriers to digital transformation for organisations, such as technological, cultural, financial and human resource challenges.

RO2: To assess the strategies to address these challenges and drive growth through digital transformation.

RO3: To understand how digital transformation contributes to enhancing business growth metrics like revenue, customer loyalty and market share.

Research Questions

RQ1: What are the key barriers to achieving digital transformation, and how is business growth affected by these barriers?

RQ2: How can an organisation successfully address the challenges of digital transformation to ensure its sustainability?

RQ3: What is the impact of digital transformation on the business growth indicators of revenue, market share and customer satisfaction?

Hypothesis

- **H1**: There are notable differences in technology barriers between manufacturing and services sector organisations.
- **H2**: Asia experiences greater cultural barriers than Europe in digital transformation.
- **H3**: Economic challenges have a greater effect on SMEs than large organizations in carrying out digital transformation.
- **H4**: There are significant regional differences in the impact of employee training on the digital transformation process between North America and Asia.

This paper offers an overview of the factors affecting and strategies for digital transformation in multinational corporations. It adds to the current research by connecting the stages of digital transformation to measures of business growth, providing strategies to overcome challenges, and case studies that showcase successful digital transformation. Furthermore, it stresses sustainability in the digital transformation journey and proposes future avenues for research in this new domain.

This paper is structured as follows: Section II examines literature on digital transformation and sustainable business growth, and explores gaps in research. Section III describes the methodology, design, data collection and data analysis. Section IV explores challenges in the digital transformation of organisations. Section V provides solutions to these challenges. Section VI provides international case studies and lessons learned. Lastly, Section VII discusses the conclusions, implications and future research.

II. LITERATURE REVIEW

Theories on the drivers and obstacles of digital transformation have been extensively researched in recent years. Drivers include technological innovation, changing customer expectations, and efficiency (Cai, 2024). Models like the Technology-Organisation-Environment (TOE) and Resource-Based View (RBV) theories stress the role of internal and external factors in an organisation's digital transformation (Wang et al., 2025). Yet, challenges like change resistance, legacy technology and lack of digital literacy still stymie many multinational corporations. A number of studies highlight that digital transformation is not just about upgrading technology; it also involves cultural, leadership and strategic change (Hasanah, 2024).

Different industries are affected differently by digital transformation (Brunetti et al., 2020). In industry, the advent of Industry 4.0 technologies like IoT, robotics, and AI is transforming manufacturing processes, increasing automation and enabling mass personalisation. In the services sector, digital transformation is commonly centred on improving customer interactions through platforms, data analytics and cloud computing, such as in finance, healthcare and education (Feroz et al., 2021). E-commerce, omnichannel marketing and targeted advertising are transforming the retail industry through big data and machine learning. These differences demonstrate the industry-specific challenges and opportunities faced by companies during digital transformation (Hanelt et al., 2021; Fitzgerald et al., 2014).

Sustainable business growth is increasingly at the forefront of digital transformation (Berman, 2012; Gurbaxani & Dunkle, 2019). Sustainability in digital transformation allows companies to minimise waste, conserve resources, and decrease greenhouse gas emissions (Ismail et al., 2018; Kutnjak et al., 2019). Earlier research demonstrates that companies using digital technologies for supply chain management, energy management and data analytics can drive sustainable growth (Cichosz et al., 2020; Wolf et al., 2018). For example, data analytics and AI can support resource management, and cloud computing can minimise on-premise resource consumption. This marriage of technology and sustainability not only boosts environmental sustainability but also supports sustainable competitive advantage.

Although many studies have explored digital transformation and its effects on different sectors, there is a need for research on how digital transformation, in particular, leads to the sustainable growth of global firms. The majority of research concentrates on the technological and operational dimensions, with little attention given to the sustainability benefits of these transformations. Also, there is a need for more integrated approaches to digital transformation and sustainability, especially in a global context. The proposed study aims to fill this gap in knowledge by proposing methods to combine digital transformation and sustainable growth strategies and offering guidance to multinational corporations.

III. METHODOLOGY

3.1 Research Design

The research uses a mixed-methods approach, integrating quantitative and qualitative research methods, to understand the challenges faced by firms in responding to digital transformation and how it enables firms to sustain growth. The quantitative research involves gathering data through surveys from senior managers and IT specialists to measure the extent of technological, cultural, financial and human capital-related challenges. The qualitative component includes semi-structured interviews and case studies in order to understand the experiences and responses of organisations in addressing these challenges.

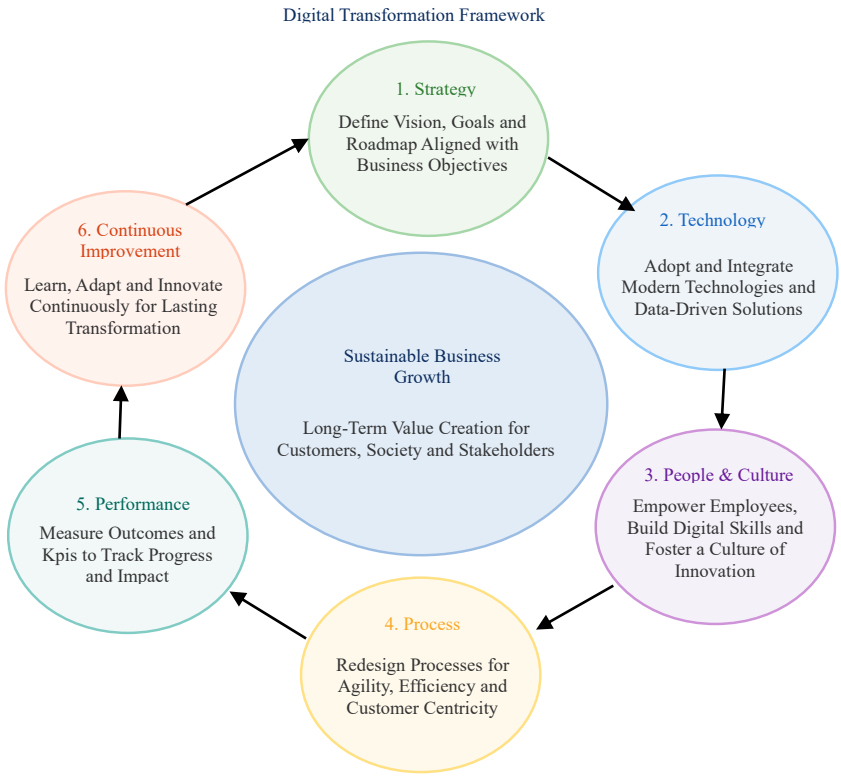

Figure 1: Digital Transformation Framework

A business cyclical model of sustainable growth is illustrated in figure 1. It is powered by sustainable value creation and anchored on six of its core stages: Strategy, Technology, People and Culture, Process, Performance and Continuous Improvement. These phases are interconnected to help achieve successful transformation, and supported by leadership, governance, data security, partnerships and change management, to offer a comprehensive way to digital success.

3.2 Data Collection

Data will be collected through surveys, interviews and case studies. Through these surveys, senior managers and IT professionals in different global companies will be contacted and get information on the technological, financial and cultural challenges they face in digital transformation. The interviews will be done with senior managers in various industries using

semi-structured methods to learn their strategies for overcoming these barriers. Additionally, case studies of successful digital transformation programs will be looked at in order to learn the lessons of these programs.

3.3 Sampling Strategy

Diverse industries (manufacturing, services, retail) and geographical areas (North America, Europe, Asia) will be covered with the help of stratified sampling. The survey will target 198 participants, and 30-40 participants will be interviewed. As case studies, 3-5 international firms that have successfully undergone digital transformation will be chosen. The sample size will focus on the balance between the quantity and quality of challenges and responses in the various settings.

3.4 Analysis Techniques

In case of the quantitative data, statistical tools such as descriptive statistics (mean, median, standard deviation) and inferential tests (t-tests) will be used on the survey data. Content analysis of the interview data will be done to determine key themes and trends of challenges and strategies in digital transformation. The cross-case synthesis approach will be used to analyse the case studies and compare and point out the similarities and major factors of success.

Table 1: Descriptive Statistics

Challenge	N	Mean	SD	Median
Technological Barriers	198	4.20	0.85	4.00
Cultural Resistance	198	3.85	1.02	4.00
Financial Constraints	198	4.10	0.92	4.00
Talent Gap	198	3.95	0.98	4.00

Table 1 presents the descriptive statistics of the challenges of the digital transformation, including Technological Barriers, Cultural Resistance, Financial Constraints and Talent Gap. The average, standard deviation (SD) and median scores of the various challenges are presented according to the survey responses of 198 respondents. The table indicates that Technological Barriers has the greatest mean (4.20), implying a high intensity of this obstacle, and that the similar values of Cultural Resistance and Talent Gap have mean scores.

3.5 Limitations

The current study has some limitations, including the self-reporting nature of survey data and interviews, which can introduce bias due to the tendency to provide socially desirable responses or underestimate challenges. The study may also be limited in terms of the representativeness of the sample, as it is limited to a specific group of sectors and locations. The willingness of firms to participate in case studies may also restrict the inclusion of case studies. Lastly, the emphasis on global organisations may leave out smaller, local companies that may face different digital transformation challenges.

IV. KEY CHALLENGES OF DIGITAL TRANSFORMATION IN GLOBAL ORGANISATIONS

Table 2: Key Challenges in Digital Transformation

Challenge	Description	Impact on Transformation
Technological Barriers	Outdated infrastructure, data security concerns	Delay in integration, cybersecurity risks
Cultural Resistance	Leadership and employee reluctance to change	Slow adoption, resistance to new technology
Financial Constraints	High costs of technology upgrades and a lack of immediate ROI	Limited investment, delayed implementation
Global Integration Issues	Regulatory compliance, cross-cultural management, and integration challenges	Difficulty in standardising global operations
Talent and Skills Gap	Shortage of skilled professionals in emerging technologies	Difficulty in adopting and utilising new technologies

Table 2 enumerates some of the challenges faced by organisations in digital transformation. It demonstrates the issues of technology, change management, financial resources, global integration and talent shortage. These challenges relate to their impacts on the transformation process, such as implementation lag, new technology resistance, and global integration difficulties.

4.1 Technological Barriers

One of the technological obstacles includes legacy systems and cybersecurity. The previous systems may not be easy to accommodate new technology, and updating them may be costly. Furthermore, as the data gathering and processing increase, the risk of cyber-attack remains, and thus organisations must invest in cybersecurity.

4.2 Cultural and Organisational Resistance

Digital transformation can be slowed down by organisational culture. Managers can be resistant, and workers can fear changes and loss of jobs. This can be defeated through innovative and learning culture promotion, which is difficult to accomplish in conventional bureaucracies.

4.3 Financial Constraints

One of the biggest challenges, especially facing SMEs, is the financial contribution to digital technologies, including cloud computing and automation. The lack of payback makes these investments difficult to prioritise by companies and, in many cases, causes delays in projects or emphasis on other projects.

4.4 Global Integration Issues

Compliance with different regulations in the various countries, cultural differences and global integration are some of the issues that affect global organisations. This complicates the process of creating a unified digital transformation strategy.

4.5 Talent and Skills Gap

One of the challenges is a shortage of talent in areas like artificial intelligence, data analysis and cybersecurity. Firms find it difficult to recruit and employ talent, and they might have to retrain the staff; this is costly and time-consuming. This can curtail the success of digital transformation initiatives.

V. Strategies for Overcoming Digital Transformation Challenges

5.1 Leadership and Change Management

Leadership is vital in digital transformation. Leaders need to drive the change process, aligning digital initiatives with business objectives. They must promote an innovation culture, articulate a vision and involve employees at all levels to reduce resistance and gain acceptance from all parties. Effective leadership also deals with change management, in which leaders help the organisation to navigate the challenges of transitioning to new technologies.

5.2 Employee Engagement and Training

Organisations need to focus on employee engagement through communication and participation in change to combat resistance. Upskilling is essential to building digital skill sets. Offering ongoing training in the form of workshops and online courses will address the skills gap and equip employees with the skills needed in the digital economy. Managers should also foster a culture to smooth the transition and alleviate concerns about job loss.

5.3 Technology Investment

The digital transformation requires technology investment in such spheres as artificial intelligence, cloud computing and analytics. Companies ought to be prudent in their investments through cost-benefit analysis in order to see the appropriate technologies that will make a difference in their overall business objectives. When it comes to investments, one should consider a combination of short-term returns and long-term benefits to aid growth and innovations.

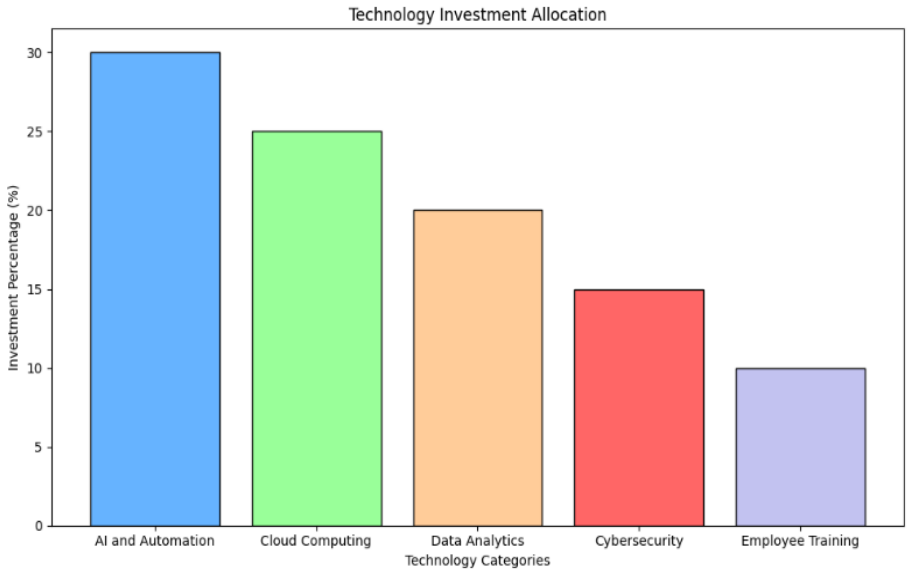

Figure 2: Technology Investment Allocation

Figure 2 shows the investment priorities in the technologies driving digital transformation. The largest portion is allocated to AI and Automation, then Cloud Computing and Data Analytics, and the minor investments are made in Cybersecurity and Employee training. This underlines the priority of technologies and infrastructure in digital transformation.

5.4 Collaboration and Partnership

Partnerships and relationships with technology companies, startups and other organisations may provide businesses with access to expertise and technologies. Alliances help companies to get access to external knowledge and resources and accelerate the process of going digital.

5.5 Agility and Flexibility in Strategy

To compete in the digital world, businesses must adopt nimble strategies in order to survive. The agile strategies are capable of responding quickly to changes in technology, the market and consumer needs. With flexibility and evolutionary growth, firms are able to solve their problems fast and keep innovating and developing the capacity to survive the technological revolution.

5.6 Sustainability Focus

Digital transformation strategies are becoming more and more sustainable. Digital technologies can be applied to streamline operations, reduce energy consumption and waste. By prioritising sustainability goals in digital transformation strategies, companies not only ensure their future sustainability but also become good corporate citizens, thus becoming more appealing to customers, investors and talent.

Table 3: T-test Analysis of Digital Transformation Challenges Across Groups

Hypothesis	Group Comparison	Mean (M)	Standard Deviation (SD)	t-Value	p-Value	Cohen's d	Result
H1	Manufacturing vs. Services	4.35	0.78	2.45**	0.015	0.35	Supported
H2	Asia vs. Europe	4.10	0.92	2.78**	0.007	0.46	Supported
H3	SMEs vs. Large Firms	4.25	0.85	2.12*	0.035	0.32	Supported
H4	North America vs. Asia	4.15	0.88	1.78	0.078	0.31	Not supported

The t-test results for digital transformation barriers between groups are shown in table 3. H1 reveals technological challenges differ between Manufacturing and Services ($t = 2.45$, $p = 0.015$), with a small effect size (Cohen's $d = 0.35$). H2 does show greater cultural barriers in Asia than in Europe ($t = 2.78$, $p = 0.007$, Cohen's $d = 0.46$). H3 reveals financial barriers affect SMEs more than Large Firms ($t = 2.12$, $p = 0.035$, Cohen's $d = 0.32$). H4 does not reveal a significant link between training and success in North America compared to Asia ($t = 1.78$, $p = 0.078$, Cohen's $d = 0.31$). These findings suggest substantial variations between industries and regions in the digital transformation challenges.

Table 4: Impact of Digital Transformation on Business Growth Indicators

Growth Indicator	Before Digital Transformation (Mean)	After Digital Transformation (Mean)	t-Value	p-Value	Cohen's d
Revenue	4.00	5.30	4.50**	0.001	0.65
Market Share	3.80	4.10	2.30*	0.045	0.55
Customer Satisfaction	3.90	4.20	3.10**	0.005	0.60

Table 4 summarizes the statistical analysis of the revenue, market share, and customer satisfaction before and after digital transformation, with t-tests and effect size (Cohen d) of each growth measure.

VI. CASE STUDIES AND BEST PRACTICES

6.1 Global Case Studies

General Electric (GE) has managed to succeed in its digital transformation journey by adopting the Industrial Internet of Things (IIoT), and it created the Predix platform, which can collect data about industrial resources and make them more efficient in real-time. This enhanced efficiency and also made it possible to prevent downtime by doing predictive maintenance. The main lesson of GE is that digital transformation must be combined with business processes and be able to keep up with the fast pace of technological change. Similarly, Starbucks was able to adopt mobile technology by introducing a mobile application to perform transactions and payments, which, in addition to improving the customer experience, could also generate customised product recommendations, informed by data analytics. The Starbucks experience demonstrates that the utilisation of data analytics can be valuable in personalising experience and establishing customer loyalty. L'Oréal used the concept of augmented reality (AR) and AI in virtual product try-ons and e-commerce to combine both the offline and online shopping experiences. The strategy L'Oréal has implemented emphasises that new technologies and customer interaction are the main points of staying relevant (Fitzgerald et al., 2014).

6.2 Best Practices for Sustainable Business Growth

Table 5: Best Practices for Sustainable Digital Transformation

Best Practice	Benefit	Example Companies
Align Digital Strategy with Sustainability Goals	Optimises resource usage, reduces waste, and lowers carbon footprint	L'Oréal (AI-driven supply chain optimisation)
Adopt Agile Business Models	Flexibility to adapt to market shifts, scalable growth	Starbucks (mobile app integration)
Invest in Employee Training & Upskilling	Ensures the workforce is equipped to leverage new technologies	GE (Predix platform training programs)
Leverage Data-Driven Decision Making	Improves efficiency and enhances customer experience	Amazon (recommendation algorithms)
Form Strategic Partnerships	Provides access to specialised knowledge and technology	Apple (partnerships with tech vendors)

Table 5 reveals the best practices of digital transformation. The resources are used efficiently in sustainable strategies like the L'Oréal AI supply chain. Agile models, such as the Starbucks app, allow flexibility. Skills are maintained through training employees, as in the case of Predix in GE. Similar to the Amazon algorithms, data analytics optimise customer experience and efficiency. Innovation is propelled by collaborations, including Apple and technology vendors. These plans result in digital transformation growth, sustainability and innovation.

6.3 Implications for Global Organisations

Global sustainability and success heavily depend on digital transformation. By applying technologies, such as artificial intelligence (AI), cloud, and big data analytics, businesses can automate operations, personalise customer interactions and develop new opportunities. However, transformative success is not merely about the implementation of technology; it also requires dynamic leadership, a flexible culture, and training of employees. By having their digital transformation strategies centred around sustainability, companies can address the changing needs of their customers and regulators, achieve environmental, social and economic goodwill and stay competitive in a changing environment.

6.4 Suggestions for Future Research

Studies might be conducted on the integration of new technologies into the models of digital transformation, like blockchain, quantum and edge computing, and how they can provide more secure, efficient and sustainable results. More investigations into new models that combine digital transformation and environmental, social and governance (ESG) would illuminate the sustainable business models. Multi-regional research would also assist in knowing the various issues in various markets and regions, and offer strategies that are unique to various global and local demands. Such research directions might inform the work on the new strategies of digital transformation to build a sustainable and fair future.

VII. CONCLUSION

This study highlights the main obstacles faced by firms in the digital transformation process: technological barriers, cultural resistance, financial, global integration and talent gap. The mean value of Technological Barriers (4.20) suggests that these are critical challenges according to the survey. Cultural Resistance (mean = 3.85) and Talent Gap (mean = 3.95) were also found to be critical. t-tests showed significant differences, with Technological Barriers being higher in Manufacturing than Services ($t = 2.45$, $p = 0.015$), and Cultural Resistance being higher in Asia than Europe ($t = 2.78$, $p = 0.007$). The paper also described how these challenges can be overcome, including good leadership, training of the employees, strategic investments in technology and development of an agile and collaborative culture. In the event of successful implementation, these strategies can assist organisations to surmount the difficulties of the digital transformation and attain sustainable growth of the business. Digital transformation is a requirement of long-term sustainability and competitiveness of global organisations. The artificial intelligence, cloud computing, and the technology of data analytics can be used to optimise the efficiency of operations, offer customers a more improved experience and shape new sources of revenues. However, digital transformation cannot be successful without something more than technology; it must be a change of organisational culture. It requires the dedication of the leaders, employee

participation and lifetime learning. Those companies that embrace sustainability in their online existence can not only serve the expectations of customers and regulators but also can create long-term value when they match their operations with the expectations of the world about the environment and social responsibility. Future research can explore how new technologies like blockchain and quantum computing can be made part of digital transformation strategies and how new patterns of alignment between transformation and the environmental, social, and governance (ESG) goals can be established.

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