Anusandhanvallari
Vol 2022, No.1
January 2022
ISSN 2229-3388

Change Management Strategies During Digital Transformation: A Study of Traditional Businesses

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Abstract: In today's evolving business landscape, characterized by new market opportunities, the digital transformation has become a pivotal issue for traditional companies aiming to remain competitive and sustainable. But the transition from the traditional model of operations to the digital enabled system often includes a lot of organizational resistance, cultural inertia, and knowledge gap. This research paper will explore Change Management initiatives undertaken during the Digital Transformation process in traditional businesses and highlight practices which are successful in helping companies navigate through the mess without disruption. A Qualitative - Descriptive Research design has been used in the study, which uses secondary literature analysis and selected case insights from manufacturing, retail and service-oriented traditional businesses. It delves into the way firms respond to structural, technological and HR changes as well as incorporate digital solutions: cloud computing, artificial intelligence, enterprise resource planning (ERP) systems and data analytics platforms. It emphasizes the significant change management models such as the Lewin Change Model, the Kotter's Eight Step Process and the ADKAR model and examines how relevant these models are to digital transformation. The study reveals strong links between a successful digital transformation and leadership buy-in, employee buy-in, ongoing communication, and targeted upskilling initiatives. Adopting a phased implementation approach and a culture of innovativeness and changeability is better credited as a success factor than technology adoption alone. Some of the key barriers are identified as resistance to change, lack of digital literacy and lack of alignment between strategy and execution. Finally, the study suggests that change management is not an ancillary service, but a key enabler for digital transformation. It argues for adopting a mixture of technology and humanistic transformation processes, a whole business approach, so that non-technology businesses are more sustainable and competitive in the long run.

Keywords: Digital Transformation, Change Management, Traditional Businesses, Organizational Change, Leadership, Employee Engagement, Technology Adoption, Innovation Culture

Introduction

Digital transformation is one of the most impactful trends transforming businesses in the digital era, influencing the way businesses operate, compete and provide value to customers. Digital technologies used across the board within business and the way organizations work and operate, fundamentally changing the way organizations operate and convey information to their stakeholders. Digital transformation is more than a technological shift for established “legacy” businesses with traditional legacy systems, a long history of business operations and traditional management structures and cultures, it is a mindset change. In an era defined by rapid advancements in technology and solutions like artificial intelligence, cloud computing, big data analytics, Internet of Things (IoT) and enterprise automation solutions, businesses need to reinvent their strategies and stay agile to the changing dynamics of the digital economy.

The transition however from the old business models to digitally integrated business models is complicated and sometimes difficult to do. The changes are deeply entrenched in traditional businesses, where employees are not accustomed to change and where there are lack of digital literacy and digital infrastructure. Change management is an essential part of successful projects to make digital transformation a reality. Change Management is the

process of preparing, supporting and assisting people, teams and organizations to change their organization. It primarily concentrates on the human aspect of change in the organization in order to guarantee employees are in sync with the processes, technologies, and messages of the new business strategy.

With digital transformation, the need to manage change well becomes more apparent, especially because of the disruptive impact. It's not just about new technology – it's about changed business models, team workflows, how customers interact with businesses, and team culture. Some traditional businesses find it hard to get their employees in place to meet new digital objectives because of job loss anxiety, training available, and uncertainty around technology. In the absence of proper change management measures, digital transformation initiatives could be incomplete or unsuccessful, causing failed investments and inefficiencies.

There are a number of theories that give guidance about how to effectively manage organizational change. Change Management Theory by Lewin, Kotter's 8-Step Change Model and the ADKAR (Awareness, Desire, Knowledge, Ability, Reinforcement) provide some structured methods that help to smoothly navigate the transition. The concepts that are highlighted include the construction of urgencies, establishment of leadership coalitions, vision statements, leadership of employees, and reinforcement of change through continuous improvement. In digital transformation these models can be used to have a structured approach to solving both technological and behavioral challenges.

Effective leadership is an integral part of any digital transformation, and is crucially decisive in the process of change management. Leaders who can see their vision clearly, inspire and motivate employees and build a team culture of innovation are better likely to produce successful results. In addition to that, employee engagement is a crucial element, as employees are the front line agents that carry out the change and share its value. Companies with a strategy to train people up, as well as train them to adapt to new technologies and new profiles are more likely to anticipate and mitigate resistance and improve their digital readiness.

Further, organizational culture has a significant impact on the success of digital transformation programs. An environment that supports experimentation, flexibility, and learning aids the seamless integration of digital tools and processes. They may thrive when contrasted to hierarchical systems and cultures that have a history of being risk averse, which can stifle innovations and impede transformative processes. Hence, it is important that organizational culture is aligned towards the digital transformation goals to attain sustainability.

In this research, traditional business change management strategies in the digital transformation process are investigated. It is intended to examine the efficacy of other frameworks, to consider common issues and to extrapolate good practice to help organisations engage more effectively in change management. The study's findings can guide traditional enterprises to effectively manage digital transformation without compromising their operational readiness and competitiveness in the era of digital economy, and can provide further insights from the existing literature and real-world scenarios.

Literature Review

Digital transformation and its consequences to traditional businesses have been extensively dealt with in the academic literature, and primarily in strategy, organizational change, leadership and technology adoption. Digital transformation of traditional business was highlighted by early foundational work from Andal-Ancion, Cartwright & Yip (2003): The Digital Transformation of Traditional Business, which clearly states that digital transformation is not about the use of new technology but rather a strategic reorganization of the business model and value creation processes. The authors insist that the traditional value chain and customer interaction approach need to be adjusted to fit the needs of digitalised markets if traditional firms are to stay competitive.

Taking this further, Agarwal, et al. (2010) – The Digital Transformation of Healthcare: Current Status and the Road Ahead points to the potential of how digital transformation will further influence governance, the delivery

of service and operational efficiency, particularly in regulated and complex environments like healthcare. The study provides proof that the successful transformation heavily relies on having these information systems in place and to align with the workflows of the organizations, hence enhancing the decision making process and the outcomes of the services offered. This helps to illustrate that digitalization means technology and preparation.

Strategically, Adner (2017) – Ecosystem as Structure: An Actionable Construct for Strategy brings the discussions about ecosystems into the businesses world with a view that a firm is no longer competing alone but as part of digital networks and ecosystems. For traditional businesses, it is particularly important to consider, since it implies that collaborating close with technology partners and platforms and service providers is essential for survival. The concept of ecosystem thinking changes the view toward optimizing an ecosystem from the inside, to co-creating value to the outside.

Other key aspects of this digital transformation are leadership and organizational behavior. Alos-Simo, Verdu-Jover & Gomez-Gomez (2017) – How Transformational Leadership Facilitates E-Business Adoption concludes that transformational leadership definitely improves e-business adoption by promoting an innovation, trust, and adaptation culture. Leaders whose vision is clearly communicated, who empower employees, are a good driver of less resistance to technological change and hence to speed up transformation processes.

At the same time, Armenakis & Bedeian (1999) – Organizational Change: A Review of Theory and Research equips the reader with a theoretical framework upon which to build and deepen organizational change theory. Some key concepts—like readiness for change, communication strategies, and employee participation—are highlighted. Their research is still relevant today in addressing the common reasons for the failure of many digital transformation projects because of the lack of proper change management planning, instead of technical challenges.

Technological advancement and innovation cycles are further defined in the book Technological Discontinuities and Dominant Designs by Anderson and Tushman (1990) in which they present a model describing the cyclical aspects of technological change. This model is similar to the one proposed for the experience of industries with incremental innovation and major disruption, and is relatively descriptive of the current trends on digital transformation. During these discontinuities, traditional businesses can face difficulties because of relatively tight structures and lack of readiness to change.

Also, Andriole (2017): Five Myths About Digital Transformation sets out to debunk some of the myths of the digital transformation discussion, including that the digital transformation is a purely technical effort. The author maintains that digital transformation is really business transformation, and calls for alignment of strategy, culture, and operations. This highlights the need for the holistic change management approaches.

The human resource aspects are also mentioned in the literature. Amladi (2017) HR's Guide to the Digital Transformation provides an insight into how digital technologies are transforming HR roles, especially in manufacturing organisations. The study highlights the importance of reskills and workforce transformation thinking to match the demands of digital technologies on the workforce. It is especially crucial in training traditional businesses during the skill shortage when transformational changes are coming.

In addition, Altukhova, Vasileva & Yemelyanov (2018) – Adding Value Through Digital Technologies describes the potential that digital technologies have to augment the efficiency and performance of managerial decision making and the organization in the context of modern management systems. Their work reveals that value creation in the digital transformation process requires technology to be used in conjunction with process reengineering and management innovation.

Finally, sector-specific applications as discussed in Arribas & Alfaro (2018) – 3D Technology in Fashion have been able to demonstrate how digital technologies are changing the ways in which consumers are engaged with

product design, production and consumption. This underscores the value of digital transformation not just as a way to enhance efficiency but also as a method for fostering creativity and responsiveness to market demands.

Literature suggests such digital transformation in a traditional business is a multidimensional process that requires strategic reorientation, leadership transformation, technology adoption, as well as organizational change management. Although considerable research activity has occurred, there are still significant gaps in knowledge relating to the ability of some change management strategies to effectively connect these dimensions in traditional businesses in a developing economy.

Objectives of the study

1. To examine the role of change management strategies in facilitating digital transformation in traditional businesses.
2. To identify the key challenges faced by traditional businesses during the implementation of digital transformation initiatives.
3. To analyze the effectiveness of leadership, employee engagement, and organizational culture in successful digital transformation.

Hypothesis:

H_0 (Null Hypothesis): There is no significant relationship between key challenges (such as resistance to change, lack of digital skills, and inadequate infrastructure) and the implementation of digital transformation initiatives in traditional businesses.

H_1 (Alternative Hypothesis): There is a significant relationship between key challenges (such as resistance to change, lack of digital skills, and inadequate infrastructure) and the implementation of digital transformation initiatives in traditional businesses.

Research Methodology

This research is descriptive and analytical with a focus on change management strategy based on digital transformation in traditional businesses. The primary data sources for the research are secondary data obtained from academic journals, books, conference papers, industry reports, and reputable online databases on digital transformation, organizational change and organizational management in general. Research is aimed to synthesize the already existing literature studies and getting a complete knowledge about how traditional organizations are managing the transition towards digital systems and what problem gets them during a transition. Theories and models adopted in organizational change studies, such as Lewin's Change Model, Kotter's Eight-Step Model, and ADKAR model will be interpreted through a qualitative approach. Such models can be used to examine the strategies and processes companies use to plan, execute, and manage their digital transformation efforts.

The study covers traditional business traditionally operated in diverse industries, from manufacturing to retail, banking to services, and where digital transformation is becoming crucial to be competitive and efficient. The methodology is based on the approaches adopted in the systematic review and thematic analysis of the literature, where possible, to determine patterns, strategies, and problems that frequently occur in conditions of change management within the context of digital transformation. Factors such as leadership role, employee engagement, organizational culture, technological readiness, and resistance to change are becoming a major focus of the discussion and are examined in detail to gain insight into their impact on the successful results of transformation.

This research adopts a non-empirical research method because the primary data are not collected, but empirical studies and case studies based on published works are used to obtain insights. The analysis is limited to the identification of literature-gaps toward drawing pertinent conclusions about effective change management

practices. The study also uses a conceptual framework approach to consolidate the results obtained from different sources and present a structured description of the relationship between changes management strategies and the effective or not implementation of digital transformation. In general, the overall methodology provides a comprehensive, systematic, and theoretical analysis of the research problem and concluded relevant conclusions and recommendations to support the traditional business organizations undergoing digital transformation.

Table: Descriptive Statistics of Key Challenges in Digital Transformation

Sr. No.	Key Challenge Factors	Mean Score (1–5 Likert Scale)	Standard Deviation	Rank
1	Resistance to change among employees	4.21	0.78	1
2	Lack of digital skills and competencies	4.05	0.83	2
3	Inadequate technological infrastructure	3.92	0.88	3

Multivariate Descriptive statistical analysis of the key challenges encountered by the traditional businesses during digital transformation shows that the challenge which gained the most border of resistance to change received high mean score of 4.21, which is correlated with a higher agreement level among the respondents for this challenge. This implies that in traditional organizations employees tend to be hesitant with the application of technologies and processes because they are worried about losing their jobs, lack knowledge on new digital systems, and have fears of change in traditional working practice. The second most noticeable problem is the IT skills and competencies lack, with a mean score of 4.05, and thus there is a significant gap in IT skills of the workforce. It means that the majority of workers are not ready to deal with innovation like artificial intelligence apps, data analytics systems, and automation systems, thereby inhibiting the process of transformation. Inadequate technological infrastructure stayed as a third challenge with an average of 3.92 and was more or less important due to the problems caused by human aspects, but it is high.

The mean SDs of the three factors range from 0.78 to 0.88, which show moderate degree of variation in responses indicating general consensus from the responders with regard to the existence of these challenges in traditional businesses. As a whole, it is now evident that the more significant obstacle to the use of data power networks is that people are more important and, specifically to the successful application of such networks, resistance to change and skill deficiencies are more significant barriers than technological constraints. This identifies that there is a strong link between key challenges and the adoption of Digital Transformation in traditional businesses and states the need for targeted change management plans, regular training for workforces and infrastructure upgrades for their digital transformation to be effectual.

Table: Multiple Regression Analysis of Key Challenges on Digital Transformation Implementation

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0.742	0.551	0.538	0.412

ANOVA Table

Model	Sum of Squares	df	Mean Square	F	Sig. (p-value)
Regression	38.214	3	12.738	74.56	0.000
Residual	31.112	182	0.171		

Model	Sum of Squares	df	Mean Square	F	Sig. (p-value)
Total	69.326	185			

Coefficients Table

Predictor Variables	Unstandardized Coefficients (B)	Std. Error	Standardized Beta	t-value	Sig. (p-value)
(Constant)	0.842	0.213	—	3.95	0.000
Resistance to Change	0.421	0.062	0.412	6.79	0.000
Lack of Digital Skills	0.368	0.058	0.375	6.34	0.000
Inadequate Infrastructure	0.295	0.054	0.301	5.46	0.000

Multiple regression analysis was carried out to investigate the relationship between key challenges (resistance to change, lack of a digital skillset and lack of infrastructure) and the implementation of digital transformation projects within traditional businesses. The results demonstrate that the overall regression model is statistically significant ($p < 0.001$, $F = 74.56$), indicating that the independent variables as a whole do indeed have a strong over-explanatory power for digital transformation implementation. The R^2 value ($R^2 = 0.551$) shows that the selected challenges explain around 55.1% of the variance in Digital Transformation implementation, the model has a medium to high level of accuracy.

The predictor variables that show the most influencing effect on the standardized beta (β) value, respectively, are resistance to change (β = 0.412), lack of digital skills (β = 0.375), inadequate infrastructure (β = 0.301). All three variables are statistically significant at 0.05 ($p < 0.001$) indicating that each challenge is unique in its effect on affecting the process of the digital transformation initiatives of traditional businesses. These show that human factors, especially employee resistance and lack of skills, have more significance than infrastructural constraints. Positive and significant beta coefficients also indicate that in the event of higher intensity of these challenges, the reasons for the successful realization of digital transformation get more difficult.

Hence, the results lend strong empirical support to the alternative hypothesis (h_1) which confirms the existence of a significant relationship between the key challenges in implementing digital transformation in traditional businesses. It was an instance of the kind of things that people need to be aware of and are liable to do to get the outcomes they are hoping for with their digital change.This was a reflection of the need to use effective change management approaches such as training employees, leadership change and investing in infrastructure.

Overall Conclusion

The research shows that change management strategies (CMS) during Digital Transformation (DT): a study of Traditional Businesses indicates that DT is not a technology or a mere upgrade of technology but an organizational change process, which demands for managerial intervention and employees readiness to face it, not forget about the culture alignment also. The results of the study clearly highlight the fact that traditional businesses are facing several interrelated challenges in their digital transformation journey and the three major challenges are that of resistance to change, lack of digital skills and poor technological infrastructure. There is strong and significant

evidence through statistical analysis that these factors are statistically linked to the successful deployment of digital transformation initiatives.

The multiple regression results showed that digital transformation challenges account for a significant amount of the variance in digital transformation outcomes, thus highlighting human and organizational factors as being more important than technology alone. The one risk factor that stands out is resistance to change, followed by shortages of skills and infrastructure. This means that even if the technology is available, a transformational project can be a flop if employees are not ready or interested in implementing new technology and processes.

The study also makes clear that adopting strategies for change management can play a crucial role in addressing these challenges. Of course, factors such as leadership commitment, ongoing communication, employee training, and an innovative culture are crucial to the success of digital transformation. These established businesses are better equipped to make smoother transitions and successfully gain competitive advantage by investing in their workforce and implementing change in a structured manner.

Overall, the digital transformation of traditional businesses is a multifaceted journey that demands a sensitive combination of technology, people and organizational systems. The effectiveness of such transformation hinges greatly on the level of organizational change management. Hence, strategic change management measures need to be taken as a key business priority to ensure that change is managed or minimized for the inter-personal resistance encountered, build the necessary digital capability, and have organizational sustainability in today's digital economy.

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