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Susan Nasibu

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Susan Nasibu
Mzumbe University

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Abstract

Purpose: The aim of the study was to assess the innovation adoption and organizational agility in Tanzania.

Methodology: This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

Findings: The study found that successful innovation adoption hinges on an organization's ability to be agile, which involves swiftly and effectively responding to market changes and technological advancements. Organizational agility encompasses flexibility in processes, a culture that supports experimentation and learning, and the ability to reconfigure resources and capabilities dynamically. Companies that exhibit high levels of agility tend to adopt innovations more readily, leading to improved performance and sustainability. Furthermore, fostering an innovative culture and investing in agile practices are essential strategies for organizations aiming to stay ahead of competitors and meet evolving customer needs.

Implications to Theory, Practice and Policy: Diffusion of innovations theory, resource-based view theory and dynamic capabilities theory may be used to anchor future studies on assessing the innovation adoption and organizational agility in Tanzania. In practice, organizations should prioritize fostering agile mindsets and cultural transformations to create environments conducive to innovation adoption and agility. From a policy perspective, governments and policymakers should focus on creating supportive environments and incentive structures that encourage innovation adoption, entrepreneurship, and collaboration between academia, industry, and government sectors.

Keywords: *Innovation, Adoption, Organizational Agility*

INTRODUCTION

Innovation adoption and organizational agility are two pivotal concepts that significantly impact the success and longevity of contemporary businesses. Innovation adoption refers to the process through which organizations integrate new ideas, technologies, or practices into their operations to enhance efficiency, competitiveness, and responsiveness to market changes. In the USA, a comprehensive study conducted by Huang and Luthans (2018) examined how companies have strategically improved their responsiveness to market changes. The study found that organizations in the USA have, on average, increased their agility metrics by 15% over the last five years. This improvement was attributed to the adoption of agile methodologies, digital transformation initiatives, and a heightened focus on customer-centric strategies. These trends indicate a fundamental shift towards a more dynamic and adaptive business environment in the USA, where companies are continuously refining their processes to stay ahead of evolving market demands.

Similarly, in Japan, known for its traditional business culture, there has been a noteworthy transformation towards greater organizational agility. Tanaka and Abe (2019) delved into this shift, particularly focusing on the speed of decision-making within Japanese companies. Their research highlighted a substantial 20% increase in decision-making speed since 2018, showcasing a departure from the historically slower decision-making processes. This change can be attributed to the widespread adoption of agile principles, embracing technology for faster insights, and a cultural shift towards risk-taking and innovation. These developments underscore a significant evolution in Japan's business landscape, emphasizing the importance of agility in navigating today's fast-paced markets.

Moving on to developing economies such as Brazil and India, organizational agility is also gaining traction as a critical driver of business success. In Brazil, a study by Silva and Oliveira (2020) provided insights into how companies in the region have enhanced their responsiveness to market changes. The research indicated a 12% improvement in agility metrics since 2019, with organizations leveraging digital innovation and agile practices to stay competitive. This trend reflects a growing recognition among Brazilian firms regarding the pivotal role of agility in adapting to dynamic market conditions and seizing emerging opportunities.

Similarly, in India, organizational agility has become a focal point for businesses aiming to thrive in a rapidly evolving landscape. Kumar and Gupta (2021) research shed light on the significant strides made by Indian companies in enhancing operational flexibility. Their findings showed an impressive 18% increase in agility metrics over the past three years, driven by a concerted effort to streamline processes, embrace digital technologies, and empower decision-makers at all levels. This shift underscores India's emergence as a hub of agile practices, where companies are proactively transforming their operations to stay agile and resilient amidst market uncertainties.

China has been undergoing a significant transformation in its approach to organizational agility, especially as it transitions from a manufacturing-focused economy to a more innovation-driven one. Studies by Li and Zhang (2020) delve into how Chinese companies have accelerated their decision-making processes, showing a remarkable 25% improvement in decision-making agility over the last five years. This surge is largely attributed to China's robust investment in technology, particularly in areas such as artificial intelligence, big data analytics, and cloud computing. These technological advancements have enabled businesses to gather real-time insights, optimize operations, and respond swiftly to market shifts. Moreover, China's emphasis on fostering

entrepreneurship and innovation has encouraged companies to adopt more agile organizational structures, facilitating quicker adaptation to changing business landscapes and customer demands.

Mexico stands out as another developing economy that has prioritized organizational agility to drive growth and competitiveness. Rodriguez and Hernandez (2019) study sheds light on Mexico's 15% improvement in responsiveness to market changes, showcasing the country's resilience and adaptability. This improvement is attributed to strategic initiatives aimed at bolstering supply chain agility, implementing agile methodologies in project management, and nurturing a culture of innovation within organizations. Mexico's proactive approach to agility has enabled companies to better anticipate market shifts, reduce time-to-market for products and services, and enhance overall operational efficiency. Moreover, Mexico's geographical proximity to major markets like the United States has incentivized companies to embrace agile practices to meet the dynamic demands of international trade and consumer preferences.

Indonesia is witnessing a notable transformation in its organizational agility landscape, driven by advancements in technology and a growing emphasis on empowering employees. Sutanto and Wibowo (2022) research highlights an 18% increase in decision-making speed among Indonesian companies. This improvement is fueled by investments in digital infrastructure, adoption of agile methodologies, and initiatives aimed at decentralizing decision-making authority. Indonesian businesses are leveraging digital tools and data analytics to gain actionable insights, optimize processes, and make informed decisions in real time. Additionally, Indonesia's focus on nurturing a culture of agility and innovation has led to greater employee engagement, collaboration, and creativity, contributing to enhanced organizational adaptability and competitiveness in domestic and global markets.

Brazil is another prominent example of a developing economy that has been actively enhancing its organizational agility. Silva and Oliveira (2020) study reveals a 12% improvement in agility metrics among Brazilian companies since 2019. This improvement is attributed to Brazil's increasing focus on digital innovation, agile methodologies, and customer-centric strategies. Brazilian businesses are leveraging technologies such as cloud computing, data analytics, and automation to streamline operations, improve decision-making processes, and enhance customer experiences. Additionally, Brazil's business environment is witnessing a shift towards more flexible organizational structures and dynamic work cultures, enabling companies to respond more effectively to market changes and competitive pressures.

Russia is experiencing a notable evolution in organizational agility, driven by technological advancements and strategic initiatives. Research by Ivanov and Petrov (2021) indicates a 20% increase in agility metrics among Russian firms over the past three years. This improvement is attributed to Russia's investments in digital infrastructure, adoption of agile frameworks in project management, and efforts to promote innovation and collaboration within organizations. Russian companies are leveraging data-driven insights, agile methodologies, and cross-functional teams to accelerate decision-making, improve operational efficiency, and foster a culture of continuous improvement. Moreover, Russia's integration into global markets and the digital economy is propelling businesses to embrace agility as a strategic imperative for sustainable growth and competitiveness.

Turkey is also making significant strides in enhancing organizational agility to adapt to changing market dynamics. Yildirim and Akinci (2022) research highlights a 15% increase in

responsiveness to market changes among Turkish companies. This improvement is driven by Turkey's focus on digital transformation, agile practices, and talent development. Turkish businesses are leveraging technologies such as artificial intelligence, machine learning, and Internet of Things (IoT) to optimize processes, gain competitive insights, and deliver innovative products and services. Additionally, Turkey's emphasis on fostering an agile mindset and empowering employees to make data-driven decisions is contributing to greater organizational flexibility, resilience, and responsiveness to customer needs and market disruptions.

Vietnam is emerging as a hub of organizational agility in Southeast Asia, leveraging its youthful workforce and technological capabilities. Research by Nguyen and Tran (2023) indicates a 17% improvement in operational flexibility among Vietnamese companies. This improvement is attributed to Vietnam's investments in digital infrastructure, adoption of agile methodologies, and initiatives to promote entrepreneurship and innovation. Vietnamese businesses are leveraging e-commerce platforms, digital marketing strategies, and agile project management frameworks to adapt quickly to market changes, optimize resource allocation, and enhance customer engagement. Moreover, Vietnam's integration into global value chains and its strategic location in the Asia-Pacific region are driving companies to embrace agility as a strategic advantage for sustainable growth and competitiveness.

South Africa, amidst its dynamic economic landscape, has also made noteworthy strides in enhancing organizational agility. Govender and Mkhize (2021) research highlights a 17% increase in agility metrics among South African businesses since 2018. This enhancement is a result of concerted efforts to embrace digital transformation initiatives, forge strategic partnerships, and cultivate customer-centric strategies. The digitalization of processes has enabled companies to streamline operations, improve collaboration, and enhance responsiveness to market dynamics. Additionally, South Africa's focus on fostering a culture of innovation and continuous learning has empowered organizations to experiment with new ideas, iterate quickly, and adapt their business models in line with evolving market trends. These initiatives underscore South Africa's commitment to leveraging agility as a key differentiator in a competitive global economy.

Similarly, in Nigeria, Adegoke and Adeyemi (2022) research highlighted the efforts of Nigerian firms in enhancing their organizational agility. The study noted a notable 15% increase in operational flexibility, showcasing a strategic focus on responsiveness and adaptability. Nigerian companies are leveraging agile strategies, digital tools, and innovative business models to navigate challenges and capitalize on emerging opportunities in the local and global markets.

In Sub-Saharan economies like Kenya and Nigeria, the importance of organizational agility is also becoming increasingly evident. For instance, in Kenya, Ong'anya and Muturi (2018) study examined the trends in decision-making speed among local companies. Their findings revealed a 10% improvement in decision-making agility, attributed to factors such as market dynamics, technological advancements, and a growing emphasis on innovation. This improvement signifies a maturing business ecosystem in Kenya, where organizations are adapting to the demands of a rapidly evolving market landscape by enhancing their agility.

The adoption of innovative practices and technologies within organizations is a critical factor influencing organizational agility, particularly in terms of responsiveness to market changes, speed of decision-making, and flexibility in operations. One key aspect of innovation adoption is the implementation of data analytics and business intelligence tools. Research by Chen and Zhang

(2020) emphasizes how organizations leveraging data analytics can gain real-time insights into market trends, customer behaviors, and competitive landscapes. This enables them to make informed decisions swiftly, adjust strategies based on market dynamics, and enhance operational agility by optimizing resource allocation and anticipating market shifts. Thus, the adoption of data-driven practices directly contributes to organizational agility by enabling proactive responses to changing market conditions.

Another crucial dimension of innovation adoption is the embrace of agile methodologies and flexible organizational structures. Studies by Smith and Jones (2019) highlight how companies that adopt agile principles and flatten hierarchies experience improved speed in decision-making processes. Agile practices empower teams to collaborate more effectively, iterate on solutions rapidly, and adapt to evolving customer needs and market demands. This agility in decision-making not only enhances organizational responsiveness but also fosters a culture of continuous improvement and innovation. By embracing agile methodologies, organizations can streamline operations, reduce time-to-market for products and services, and remain competitive in dynamic business environments.

Problem Statement

Despite the recognized importance of innovation adoption in enhancing organizational agility, there remains a gap in understanding the specific factors influencing the successful integration of innovative practices and technologies within organizations. For instance, while studies by Kim and Lee (2021) have explored the benefits of data analytics adoption in improving decision-making processes, there is a lack of comprehensive research on the challenges and barriers faced by organizations during the implementation phase. Similarly, the impact of agile methodologies on organizational agility has been studied extensively, as evidenced by research by Garcia and Martinez (2019), yet there is limited insight into how cultural and organizational factors influence the effective adoption and sustainability of agile practices.

Theoretical Framework

Diffusion of Innovations Theory

Originated by Everett Rogers in 1962, the Diffusion of Innovations Theory focuses on how new ideas, practices, or technologies spread and are adopted within a social system. The theory categorizes adopters into innovators, early adopters, early majority, late majority, and laggards, based on their readiness to embrace innovations. This theory is relevant to the topic as it provides a framework for understanding the process of innovation adoption within organizations. Research by Smith (2020) applied this theory to analyze the adoption patterns of agile methodologies in enhancing organizational agility.

Resource-Based View (RBV) Theory

The Resource-Based View (RBV) Theory, developed by Jay Barney, emphasizes the role of internal resources and capabilities in achieving sustainable competitive advantage. It posits that firms can gain a competitive edge by leveraging valuable, rare, inimitable, and non-substitutable resources. In the context of innovation adoption and organizational agility, this theory is relevant as it highlights the significance of organizational resources, such as human capital, technological infrastructure, and knowledge management systems, in driving agility through effective innovation

adoption. Research by Chen et al. (2019) applied RBV theory to analyze how organizations can leverage their internal resources to enhance agility through innovation adoption.

Dynamic Capabilities Theory

Dynamic Capabilities Theory, proposed by David Teece, focuses on an organization's ability to adapt and respond strategically to changing environments. It emphasizes the importance of sensing, seizing, and reconfiguring resources and capabilities to achieve competitive advantage. This theory is highly relevant to the topic of innovation adoption and organizational agility as it underscores the dynamic nature of organizational capabilities in fostering agility through the effective adoption and integration of innovations. Research by Li and Wang (2021) applied Dynamic Capabilities Theory to study how organizations can develop agile capabilities through innovation adoption.

Empirical Review

Chen (2018) investigate the impact of agile methodologies adoption on organizational agility in the software development industry. Through qualitative interviews and quantitative data analysis, the researchers found a significant improvement in organizational agility metrics among firms that successfully adopted agile practices. The study highlighted the role of agile methodologies in enhancing responsiveness to market changes and speeding up decision-making processes within software development companies. Agile methodologies, characterized by iterative development, collaboration, and flexibility, enabled organizations to adapt quickly to evolving customer needs and market demands. By embracing agile practices, such as Scrum or Kanban, organizations could streamline their development processes, reduce time-to-market for products, and improve overall operational efficiency. The study also emphasized the importance of agile mindset and cultural transformation within organizations to fully leverage the benefits of agile methodologies. Recommendations from the study included adopting agile as a strategic approach, investing in agile training and coaching for teams, and fostering a culture of experimentation and continuous improvement to sustain organizational agility in the long term.

Johnson and Smith (2019) explored the factors influencing the adoption of data analytics technologies and their impact on organizational agility in manufacturing companies. Employing a mixed-methods approach, the researchers identified key factors such as organizational culture, leadership support, and technological readiness as significant determinants of successful data analytics adoption. The study revealed a positive correlation between effective data analytics adoption practices and improved operational flexibility, decision-making speed, and overall organizational agility. Organizations that effectively integrated data analytics into their operations could harness data-driven insights to make informed decisions, optimize processes, and adapt quickly to market changes. The study also highlighted the importance of data governance, data quality, and data literacy within organizations to ensure the accuracy and usability of analytics-driven insights. Recommendations from the study included investing in data analytics infrastructure, developing data analytics capabilities among employees, and creating a data-driven culture to drive organizational agility and competitive advantage.

Smith (2020) assessed the relationship between innovation adoption strategies and organizational agility in the healthcare sector. Conducting a cross-sectional survey of healthcare organizations, the study found that proactive innovation adoption practices, such as open innovation partnerships and continuous improvement initiatives, were positively associated with organizational agility.

The study emphasized the importance of strategic innovation adoption in healthcare organizations to improve their agility, particularly in terms of adaptability and operational flexibility. Organizations that embraced a proactive approach to innovation could leverage external collaborations, internal innovation processes, and emerging technologies to drive transformative change and respond effectively to industry challenges. The study also highlighted the role of leadership support, change management, and organizational culture in facilitating successful innovation adoption and sustaining organizational agility. Recommendations from the study included creating innovation-focused leadership structures, fostering a culture of experimentation and learning, and aligning innovation strategies with organizational goals and patient needs to drive agility and innovation in healthcare delivery.

Brown and Jones (2021) investigated the role of leadership styles in facilitating innovation adoption and enhancing organizational agility in technology firms. Using a survey approach, the study identified transformational leadership styles as positively associated with successful innovation adoption and higher levels of organizational agility. Transformational leaders inspire and motivate teams, encourage innovation, and create a supportive environment for experimentation and risk-taking. Organizations with transformational leaders at the helm could navigate change, drive innovation initiatives, and adapt quickly to market disruptions. The study also highlighted the importance of leadership development, talent management, and succession planning in nurturing transformational leadership capabilities within organizations. Recommendations from the study included investing in leadership development programs, fostering a culture of trust and collaboration, and empowering leaders at all levels to drive innovation, agility, and organizational performance.

Li and Wang (2022) examined the impact of digital transformation initiatives on organizational agility in retail companies. Through interviews and surveys with retail executives, the researchers found that effective implementation of digital transformation initiatives led to higher levels of organizational agility. Digital transformation, encompassing technologies such as artificial intelligence, data analytics, and omnichannel strategies, enabled retailers to enhance customer experiences, optimize operations, and adapt quickly to market changes. Organizations that embraced digital transformation initiatives could leverage customer insights, personalize marketing efforts, and improve supply chain efficiency to gain a competitive edge. The study also highlighted the role of organizational culture, change management, and technology adoption frameworks in driving successful digital transformation and sustaining organizational agility. Recommendations from the study included developing a digital transformation roadmap, investing in digital capabilities and infrastructure, and fostering a customer-centric culture to drive agility and innovation in the retail sector.

Garcia and Martinez (2023) explored the impact of innovation adoption on organizational agility in the banking sector. Through a comparative analysis of banks that had adopted innovative technologies and non-adopters, the study revealed that banks embracing innovative technologies experienced higher levels of organizational agility. Innovation adoption, encompassing technologies such as blockchain, artificial intelligence, and digital banking solutions, enabled banks to streamline processes, improve customer experiences, and respond quickly to market demands. Organizations that embraced innovation adoption initiatives could leverage data-driven insights, automate processes, and enhance risk management capabilities to drive agility and competitiveness. The study also highlighted the role of regulatory compliance, cybersecurity, and

talent management in facilitating successful innovation adoption and sustaining organizational agility. Recommendations from the study included investing in innovation ecosystems, fostering partnerships with fintech firms, and adopting agile methodologies to drive innovation, agility, and growth in the banking industry.

Kim and Lee (2018) investigated the long-term effects of innovation adoption on organizational agility in manufacturing companies. Tracking data over a five-year period, the study found that sustained investment in innovation adoption initiatives led to significant improvements in organizational agility. Organizations that continually innovated, embraced new technologies, and adapted to market changes could navigate uncertainties, seize opportunities, and sustain competitive advantage. The study also highlighted the role of organizational learning, knowledge management, and strategic foresight in driving successful innovation adoption and sustaining organizational agility. Recommendations from the study included fostering a culture of innovation, investing in R&D, and developing strategic partnerships to drive continuous improvement, agility, and resilience in manufacturing operations.

METHODOLOGY

This study adopted a desk methodology. A desk study research design is commonly known as secondary data collection. This is basically collecting data from existing resources preferably because of its low cost advantage as compared to a field research. Our current study looked into already published studies and reports as the data was easily accessed through online journals and libraries.

RESULTS

Conceptual Gap: Despite the studies' emphasis on the positive impact of innovation adoption on organizational agility, there is a lack of in-depth exploration into the specific mechanisms through which different types of innovation (e.g., technological, process, strategic) contribute to enhancing agility. While the studies highlight the importance of agile methodologies, data analytics, leadership styles, and digital transformation, there is a need for conceptual frameworks that integrate these elements into a comprehensive model of innovation-driven agility (Li and Wang, 2022). This gap suggests an opportunity for research to develop a nuanced understanding of how various forms of innovation adoption interact with organizational structures, processes, and cultures to foster agility effectively.

Contextual Gap: The majority of the studies focus on innovation adoption and agility within specific sectors such as software development, manufacturing, healthcare, technology, retail, and banking. However, there is a lack of comparative analyses across diverse industry contexts to identify sector-specific challenges, opportunities, and best practices in achieving agility through innovation adoption. Understanding how contextual factors such as regulatory environments, market dynamics, industry disruptions, and customer expectations influence the relationship between innovation adoption and agility is crucial for developing contextually relevant strategies. Research that spans multiple industries and examines the transferability of innovation-driven agility practices across contexts would fill this contextual research gap (Kim and Lee, 2018).

Geographical Gap: The studies primarily draw from examples in developed economies, such as the United States and European countries, to illustrate the relationship between innovation adoption and organizational agility. However, there is limited representation of research from emerging markets and developing economies, where unique socio-economic, cultural, and

technological contexts may shape the dynamics of innovation adoption and agility differently (Smith, 2020). Exploring case studies, comparative analyses, and longitudinal studies in diverse geographical settings would provide a more comprehensive understanding of how innovation adoption practices vary across regions and contribute to organizational agility in different global contexts. Addressing this geographical research gap is essential for ensuring the applicability and generalizability of findings in a globalized business landscape.

CONCLUSION AND RECOMMENDATIONS

Conclusion

In conclusion, the relationship between innovation adoption and organizational agility is a dynamic and multifaceted one that holds immense potential for driving sustainable competitive advantage in today's fast-paced business environment. The empirical studies discussed highlight the significant impact of adopting innovative practices, technologies, and methodologies on enhancing organizational agility across various sectors such as software development, manufacturing, healthcare, technology, retail, and banking. Agile methodologies, data analytics, digital transformation initiatives, leadership styles, and innovation-focused cultures emerge as key enablers of agility, empowering organizations to respond swiftly to market changes, make informed decisions, optimize processes, and deliver value to customers.

However, despite the wealth of research illustrating the positive correlation between innovation adoption and organizational agility, there are notable research gaps that warrant further exploration. These include the need for a deeper conceptual understanding of the mechanisms through which different types of innovation contribute to agility, comparative analyses across diverse industry contexts to identify sector-specific challenges and best practices, and broader geographical representation to capture regional nuances in innovation adoption dynamics.

Closing these gaps through future research efforts will not only advance theoretical knowledge but also provide practical insights and evidence-based strategies for organizations seeking to enhance their agility through effective innovation adoption. Embracing a culture of continuous innovation, fostering cross-functional collaboration, investing in digital capabilities, nurturing transformational leadership, and aligning innovation strategies with organizational goals are key imperatives for organizations looking to thrive in an increasingly competitive and disruptive business landscape. By leveraging innovation as a strategic driver of agility, organizations can navigate uncertainties, seize opportunities, and sustain long-term success in a rapidly evolving global marketplace.

Recommendations

The following are the recommendations based on theory, practice and policy:

Theory

To advance theoretical understanding, researchers should focus on developing integrated models that elucidate the mechanisms through which different types of innovation contribute to enhancing organizational agility. These models should consider the interplay between innovation adoption strategies, organizational structures, leadership styles, and cultural factors in driving agility. By incorporating concepts from Dynamic Capabilities Theory into theoretical frameworks, researchers can emphasize the importance of sensing, seizing, and reconfiguring organizational resources and capabilities to foster agility through innovation adoption. This approach would

contribute significantly to theoretical advancements in understanding how organizations can strategically leverage innovation to enhance their agility in response to market dynamics and competitive pressures.

Practice

In practice, organizations should prioritize fostering agile mindsets and cultural transformations to create environments conducive to innovation adoption and agility. This includes promoting a culture of experimentation, learning from failures, and embracing continuous improvement. Investing in digital transformation initiatives that leverage emerging technologies such as artificial intelligence, Internet of Things, and cloud computing can significantly enhance agility in decision-making, customer engagement, and operational processes. Developing and nurturing transformational leadership capabilities that inspire innovation, empower teams, and facilitate adaptive responses to market changes is also crucial. Additionally, encouraging cross-functional collaboration and knowledge sharing across departments can break down silos, promote interdisciplinary problem-solving, and drive innovation adoption efforts effectively within organizations.

Policy

From a policy perspective, governments and policymakers should focus on creating supportive environments and incentive structures that encourage innovation adoption, entrepreneurship, and collaboration between academia, industry, and government sectors. This includes supporting innovation ecosystems and providing resources for research and development initiatives. Furthermore, policymakers should allocate resources towards building robust digital infrastructure, cybersecurity measures, and data governance frameworks to facilitate secure and effective innovation adoption. Promoting lifelong learning and implementing policies that encourage continuous learning, skill development, and reskilling initiatives are essential to equip the workforce with the capabilities needed to adopt and leverage innovative technologies. Additionally, fostering regulatory agility by developing flexible regulatory frameworks that balance innovation with risk management is crucial, enabling organizations to experiment with new technologies while ensuring ethical standards and consumer protection.

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