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Unlocking User Acceptance in Mobile Business Intelligence : Factors Shaping the Transition in the Digital Era

Harshvardhan Singh Chauhan¹, Ms. Rashmi Pandey²

¹Institute of Technology and Management, Gwalior, Madhya Pradesh, India ²Assistant Professor, Institute of Technology and Management, Gwalior, Madhya Pradesh, India

ARTICLEINFO	ABSTRACT
Article History:	The proliferation of mobile devices and global smartphone sales has ushered in a new era of Business Intelligence (BI) through mobile applications. This article
Accepted: 10 Nov 2023 Published: 30 Nov 2023	explores the factors influencing user acceptance of mobile business intelligence (MBI) and presents a comprehensive examination of these determinants. A conceptual model is constructed, and quantitative data is collected from various
Publication Issue Volume 9, Issue 6 November-December-2023 Page Number 118-121	 MBI users, making rigorous analysis possible using SPSS software. The study addresses the paradox of modest user acceptance rates in MBI despite the growing demand for instant data access, supplying valuable insights for practitioners and organizations. Keywords : Mobile Business Intelligence (MBI), User Acceptance, Information Quality, System Quality, Organizational Climate, Mobile Technology, Data Access, Data Governance, Data Privacy, Decision-Making

I. INTRODUCTION

In today's data-driven business landscape, computerbased data management and analytical tools are indispensable for organizations [1]. The explosion of digital data has led to the emergence of Knowledge Discovery in Databases (KDD) within Business Intelligence (BI) [2]. Simultaneously, mobile access to business data has become the norm, catalyzing the convergence of BI with mobile technology [4]. Mobile Business Intelligence (MBI) empowers users with realtime data-driven decision-making and enhanced business agility [8]. This study delves into the factors influencing user acceptance in the realm of MBI, offering insights for organizations navigating this evolving terrain.

The Transformative Impact of Mobile Devices and Global Smartphone Sales on BI:

Mobile devices and the surge in global smartphone sales are reshaping the BI landscape. MBI offers realtime data access, enhancing business agility and standardizing reporting [5]. This transformation empowers professionals with critical insights anytime, anywhere.

Highlighting the Paradox of Modest User Acceptance Rates in MBI:

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Despite the demand for instant data access, MBI's user acceptance rates are still low. Factors like complexity, novelty, and organizational climate contribute to this paradox. This research aims to comprehensively grasp the factors affecting MBI user acceptance, supplying insights for organizations and practitioners.

A Comprehensive Examination of User Acceptance Factors in MBI:

The study finds key factors influencing MBI user acceptance, including organizational climate, information quality, system quality, societal impact, and individual effects. Quantitative and qualitative methods, along with SPSS data analysis, offer holistic insights.

Exploring the Construction and Framework of a Conceptual Model for MBI User Acceptance:

The conceptual model outlines key factors and their interconnected relationships, confirmed and refined through data analysis. It becomes a strategic framework for enhancing MBI user acceptance and has implications for MBI implementation.

Methodology for Data Collection and Rigorous Data Analysis in MBI Research:

The study follows a meticulous data collection and analysis approach, including participant selection, informed consent, and data preprocessing. Rigorous data analysis using SPSS software combines quantitative and qualitative methods, ensuring ethical standards are upheld.

Understanding MBI User Acceptance: Navigating a Complex Landscape

In Mobile Business Intelligence (MBI), user acceptance is a complex phenomenon influenced by various intricate factors. This discussion explores the inherent complexity of MBI user acceptance, including key determinants such as mobile technology, information quality, user behavior, relationship dynamics, evolving BI studies, and scenarios of new developments.

Mobile Technology:

Central to MBI is the pervasive influence of mobile technology. The dynamic landscape of smartphones, tablets, and other devices continuously evolves, posing challenges in adapting MBI applications to diverse platforms, screen sizes, and operating systems. Compatibility issues, performance variations, and rapid technological advancements add layers of complexity.

Information Quality:

Information quality is pivotal for MBI user acceptance. Users expect exact, relevant, and reliable data to be delivered seamlessly to their mobile devices. Complexity arises from diverse data sources, integration challenges, and data governance issues. Ensuring high information quality demands robust data management and quality control measures.

User Behavior:

User behavior significantly shapes MBI acceptance. Understanding how users interact with mobile BI applications, their preferences, habits, and expectations is complex. Factors like informationseeking behavior, data consumption patterns, and user feedback contribute to the intricate tapestry. Organizations must adapt MBI interfaces to align with diverse user behaviors.

Relationship Dynamics:

Interactions within organizations add another layer of complexity. Hierarchical structures, communication dynamics, and power relationships influence MBI adoption. Navigating complexity this requires understanding how user acceptance affects interpersonal relationships and vice versa. Resistance to change, conflicts, and differing interests can complicate integration.



Evolving BI Studies:

The BI landscape is in constant flux, introducing new paradigms, methodologies, and best practices. Adapting MBI to align with the latest trends and insights demands staying updated in a dynamic intellectual landscape. The complexity lies in the need for continuous learning and adaptation.

Scenarios of New Developments:

The future of MBI holds opportunities and challenges with emerging technologies like augmented reality, artificial intelligence, and blockchain. The complexity arises from the uncertainty surrounding these developments. Organizations must prepare for potential disruptions while addressing user acceptance demands.

II. RESULTS AND DISCUSSION

Implications of Research Findings for Practitioners and Organizations:

Maximizing the Potential of MBI in the Digital Age Implications for leveraging MBI fully:

1. Prioritize Mobile Technology: MBI relies on mobile tech. Organizations should invest wisely in mobile infrastructure to ensure compatibility with various devices and OSs, staying adaptable to user expectations.

2. Ensure Data Quality: High-quality data is vital. Establish strong data governance with an emphasis on accuracy, relevance, and reliability. Regular audits and quality control are essential to support user trust and enhance decision-making using MBI insights.

3. User-Centric Design: Understanding user behavior is paramount. Organizations should adopt a user-centric approach to MBI application design. Tailoring interfaces, functionalities, and content to align with user preferences and habits can significantly enhance Continuous feedback user acceptance. user mechanisms should integrated into MBI be development processes.

4. Organizational Culture and Change Management: MBI adoption can disrupt organizational culture. Change management strategies are critical to fostering a culture of adaptability and openness.

5. Continuous Learning and Adaptation: The BI landscape evolves rapidly. Staying informed about emerging trends and technologies is vital for keeping MBI aligned with best practices.

6. Balance Agility and Analysis: MBI enables real-time decision-making. However, organizations must strike a balance between agility and thoughtful analysis to avoid hasty judgments.

7. Integration of Emerging Technologies: Expecting and preparing for emerging technologies is crucial. Practitioners and organizations should explore the integration of technologies like augmented reality, artificial intelligence, and blockchain into their MBI strategies. These innovations can unlock new dimensions of MBI capabilities.

8. Scalability and Accessibility: Scalability is vital as MBI adoption expands. Ensuring that MBI stays accessible to a growing user base, including remote and mobile workers, is imperative. Cloud-based solutions and mobile-responsive interfaces ease accessibility across diverse locations and devices.

9. Collaboration and Knowledge Sharing: Collaboration and knowledge sharing among practitioners and organizations are essential. Sharing best practices, success stories, and lessons learned can accelerate MBI adoption and enhance its impact.

10. Uphold Ethical Standards: Practitioners and organizations must uphold ethical standards in MBI usage. Data privacy, security, and compliance with regulatory frameworks are non-negotiable.



Maintaining user trust and safeguarding sensitive information are paramount.

III.CONCLUSION

In conclusion, the research findings emphasize that MBI user acceptance is not merely a technological challenge but a holistic endeavor encompassing technology, data quality, user-centricity, culture, learning

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