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Digital Transaction Volume Rises Since Demonetization

Harsh Rajan¹, Dr. Ashutosh Jha²

¹ Student, ² **Professor** School of Business, Galgotias University

ABSTRACT

This paper investigates the surge in digital transaction volumes in India following the 2016 demonetization initiative. It examines the policy's impact on accelerating the adoption of digital payments, analyzing factors such as government measures, technological advancements, and consumer behaviour shifts. The study highlights significant increases in digital transactions post-demonetization, identifies challenges, such as cybersecurity risks and rural accessibility issues, and discusses implications for future digital payment strategies in transitioning economies.

1. Introduction

Demonetization, as a fiscal policy maneuver, has been increasingly utilized by governments worldwide to address various economic challenges, including combating corruption, curbing black money circulation, and promoting digital financial inclusion. In November 2016, India undertook one of the most prominent and impactful demonetization exercises globally, invalidating high-denomination currency notes overnight. This initiative, while controversial and disruptive, aimed to transition the country towards a less cash-dependent economy and accelerate the adoption of digital payment systems.

The immediate aftermath of demonetization witnessed a surge in digital transactions as cash became scarce, prompting individuals and businesses to explore alternative payment methods. This shift underscored the critical role of policy interventions in shaping financial behavior and infrastructure development. Understanding the dynamics of this transition is essential for evaluating the long-term implications on financial inclusion, economic growth, and technological innovation in India.

This paper examines the impact of demonetization on digital transaction volumes in India, analyzing trends before and after the policy implementation. It explores factors driving the adoption of digital payments, including government initiatives, technological advancements, changes in consumer behavior, and regulatory frameworks. Moreover, it discusses the challenges encountered during the transition, such as cybersecurity risks and disparities in digital infrastructure across urban and rural areas.

By elucidating these aspects, this study contributes to the broader discourse on demonetization's efficacy as a catalyst for digital transformation in emerging economies. It provides insights into the evolution of digital payment ecosystems post-demonetization and offers recommendations for policymakers and stakeholders to sustain momentum and address remaining barriers to digital financial inclusion.

2. RESEARCH METHODOLOGY

This study employs a mixed-methods approach to investigate the impact of demonetization on digital transaction volumes in India. The methodology encompasses both quantitative analysis of secondary data and qualitative insights derived from literature review and expert interviews.

1. Quantitative Analysis:

- **Data Collection:** Secondary data sources are utilized to gather information on digital transaction volumes in India before and after demonetization. Data is sourced from official reports, financial institutions, and government publications.
- Data Analysis: Statistical methods, such as time-series analysis and comparative studies, are applied to assess trends in digital transactions pre- and post-demonetization. Key metrics include transaction volumes, growth rates, and sectoral distribution of digital payments.
- Variables: Variables considered include government policies promoting digital payments, technological infrastructure development, consumer behavior shifts, and regulatory changes.

2. Qualitative Insights:

- Literature Review: A comprehensive review of academic literature, policy documents, and industry reports is conducted to understand the broader context of demonetization's impact on digital payments in India.
- **Expert Interviews:** Interviews with stakeholders from financial institutions, government agencies, and fintech sectors provide qualitative insights into the implementation challenges, policy effectiveness, and future prospects of digital transactions.

3. Integration of Findings:

- The quantitative analysis and qualitative insights are integrated to provide a comprehensive understanding of the factors influencing digital transaction volumes post-demonetization.
- Comparative analysis of different sectors (e.g., urban vs. rural, formal vs. informal economy) helps in identifying disparities and challenges in digital payment adoption.

4. Limitations and Considerations:

- Limitations such as data availability, reliability of self-reported data from financial institutions, and challenges in assessing informal sector transactions are acknowledged.
- o Ethical considerations include ensuring confidentiality of interview respondents and transparency in data analysis methods.

5. Implications and Recommendations:

- Based on the findings, implications for policy makers, financial institutions, and stakeholders are discussed, focusing on strategies to enhance digital financial inclusion, mitigate cybersecurity risks, and bridge urban-rural disparities.
- Recommendations are provided for future research directions and policy interventions to sustain and accelerate the momentum towards a cashless economy in India.

By employing this comprehensive research methodology, the study aims to contribute valuable insights into the transformative effects of demonetization on digital payments and inform strategies for enhancing financial inclusion and economic resilience in emerging economies.

3. RESULTS

The analysis of digital transaction volumes in India following the 2016 demonetization reveals several significant findings:

- Immediate Surge in Digital Transactions: In the immediate aftermath of demonetization, there was a sharp increase in digital transaction volumes as cash became scarce. Payment through digital channels such as mobile wallets, UPI (Unified Payments Interface), and online banking witnessed unprecedented growth.
- Continued Growth Post-Demonetization: The growth trajectory of digital transactions continued in the years following demonetization, indicating a sustained shift towards digital payments. Factors contributing to this growth include enhanced digital infrastructure, increased smartphone penetration, and a growing acceptance of digital payment methods among consumers and businesses.
- Sectoral Adoption Patterns: Different sectors exhibited varying rates of adoption of digital payments. Urban areas and formal sectors saw quicker adoption compared to rural areas and informal sectors. Government initiatives to promote digital transactions, such as cashless subsidies and digital payment incentives, played a crucial role in sectoral adoption patterns.
- 4. Technological Advancements and Consumer Behavior: Advances in fintech solutions, including secure payment gateways and userfriendly mobile applications, facilitated smoother transitions to digital payments. Changes in consumer behavior, driven by convenience, security, and incentives, further accelerated the uptake of digital payment methods.
- 5. Challenges and Barriers: Despite the growth, challenges such as cybersecurity threats, digital literacy barriers, and infrastructure gaps in rural areas persisted. These challenges highlight the need for continued investment in cybersecurity measures, education programs on digital literacy, and infrastructure development to ensure inclusive growth of digital transactions across all segments of society.
- 6. **Policy Implications:** The findings underscore the role of government policies in shaping the digital payment landscape post-demonetization. Policy interventions focusing on improving digital infrastructure, promoting financial literacy, and fostering innovation in fintech are critical for sustaining the momentum towards a cashless economy.
- 7. Future Directions: Recommendations include enhancing cybersecurity frameworks, expanding digital infrastructure in rural areas, and promoting interoperability among digital payment platforms to ensure seamless and inclusive digital financial inclusion. Continued research and monitoring of digital payment trends are essential for adapting policies to evolving consumer needs and technological advancements.

Overall, the results highlight the transformative impact of demonetization on digital transactions in India and provide insights into the ongoing evolution of digital payment systems in emerging economies.

4. DISCUSSION

The impact of demonetization on digital transactions in India has been profound, marking a significant shift towards cashless transactions driven by both policy interventions and technological advancements. Post-2016, there was a noticeable surge in digital payments, facilitated by the rollout of initiatives like UPI (Unified Payments Interface) and improved mobile banking services. This shift not only reduced reliance on cash but also enhanced transparency in financial transactions, addressing long-standing issues of corruption and black money circulation.

However, the transition was not uniform across all sectors and regions. Urban areas and formal sectors adapted more quickly, benefiting from better digital infrastructure and higher levels of financial literacy. In contrast, rural areas faced challenges related to limited internet connectivity, lower smartphone penetration, and inadequate awareness about digital payment methods. Addressing these disparities remains critical to ensure inclusive growth and equitable access to digital financial services.

Moreover, the surge in digital transactions also brought to light new challenges, particularly cybersecurity risks. As digital transactions increased, so did the vulnerabilities associated with data breaches and fraudulent activities. Strengthening cybersecurity measures and promoting awareness among users about safe digital practices are essential to mitigate these risks and maintain consumer trust in digital payment systems.

Looking ahead, policymakers must focus on sustaining the momentum towards a cashless economy through continued investment in digital infrastructure, regulatory reforms to foster innovation, and initiatives to enhance digital literacy in rural and underserved communities. Promoting interoperability among various digital payment platforms will further streamline transactions and improve accessibility for users across different systems.

In conclusion, while demonetization accelerated India's journey towards digital transactions, ongoing efforts are needed to address remaining challenges and ensure that the benefits of a cashless economy are shared inclusively across the entire population.

5. CONCLUSION

Demonetization in India, implemented in 2016, sparked a transformative shift towards digital transactions, significantly altering the country's financial landscape. The policy effectively accelerated the adoption of digital payment methods, driven by improved infrastructure, technological innovations like UPI, and changing consumer behaviors favoring convenience and security.

The immediate aftermath of demonetization saw a sharp rise in digital transactions as cash became scarce, highlighting the resilience and adaptability of Indian consumers and businesses. This surge not only reduced reliance on cash but also promoted financial inclusion by bringing previously underserved populations into the formal financial system.

However, challenges such as cybersecurity threats and disparities in digital infrastructure between urban and rural areas persist. Addressing these challenges requires sustained efforts from policymakers, including enhancing cybersecurity frameworks, expanding internet connectivity, and promoting digital literacy programs across all demographics.

Looking forward, sustaining the momentum towards a cashless economy demands continued investment in digital infrastructure, supportive regulatory frameworks, and collaborative efforts among stakeholders to ensure seamless interoperability and accessibility of digital payment solutions. Moreover, ongoing research and monitoring are essential to adapt policies to evolving technological advancements and consumer preferences.

In conclusion, while demonetization propelled India towards a digital payments revolution, the journey towards a fully inclusive and secure digital economy is ongoing. By addressing remaining challenges and leveraging emerging opportunities, India can continue to lead in the global digital finance landscape, fostering economic growth and financial empowerment for all segments of society.

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7. IMPORTANT LINKS

1. https://www.npci.org.in/what-we-do/upi/product-statistics

- 2. https://m.rbi.org.in/scripts/AnnualReportPublications.aspx?Id=1351
- 3. https://digipay.gov.in/
- 4. https://www.bbc.com/news/world-asia-india-37974423
- 5. <u>https://www.nic.in/blogs/digital-payments-driving-the-growth-of-digital-</u> economy/#::text=The%20demonetization%20policy%20in%20India,the%20years%20since%5B1
- https://economictimes.indiatimes.com/tech/technology/indias-e-commerce-market-size-to-reach-120-billion-by-2026report/articleshow/92740817.cms?from=mdr
- 7. https://inc42.com/features/record-breaking-numbers-upi-2022-hint-india-maturig-digital-payments-ecosystem/
- 8. https://timesofindia.indiatimes.com/business/india-business/cash-still-king-as-digital-payments-inch-up-slowly/articleshow/61554102.cms
- 9. https://www.livemint.com/news/india-to-have-around-900-million-internet-users-by-2025-report-11659063114684.html

8. BIBLIOGRAPHY

- 1. Kimmel, P. D., Weygandt, J. J., & Kieso, D. E. (2006). Financial Accounting: Tools for Business Decision Making.
- 2. Jonker, N., C. van der Cruijsen, M. Bijlsma, and W. Bolt (2020), 'Pandemic Payment Patterns',
- 3. DNB Working Papers 701, Research Department, Netherlands Central Bank
- 4. Liu, T., B. Pan, and Z. Yin (2020), 'Pandemic, Mobile Payment, and Household Consumption:
- 5. Micro Evidence from China', Emerging Markets Finance and Trade, 56(10), 2378-2389.
- 6. National Payments Corporation of India (2020), 'Digital Payments Adoption in India, 2020', NPCI-PRICE Report.
- Saroy, R., S. Awasthy, N. K. Singh, S. Adki, and S. Dhal (2022), 'Impact of COVID-19 on Digital Payment Habits of Indian Households', Bulletin of Monetary Economics and Banking, Vol 25, Special Issue.
- 8. Toh, Y. L., and T. Tran (2020), 'How the COVID-19 Pandemic May Reshape the Digital Payments Landscape', Payments System Research Briefing, 1-10, Federal Reserve Bank of Kansas City

9. REFERENCES

- 1. https://digipay.gov.in/
- 2. https://www.bbc.com/news/world-asia-india-37974423
- 3. <u>https://www.nic.in/blogs/digital-payments-driving-the-growth-of-Digital-</u> Economy/#:~:text=The%20demonetization%20policy%20in%20InDia,the%20years%20since%5B1%5D
- 4. https://economictimes.indiatimes.com/tech/technology/indias-e-Commerce-market-size-to-reach-120-billion-by-2026-Report/articleshow/92740817.cms?from=mdr
- 5. https://inc42.com/features/record-breaking-numbers-upi-2022-hint-India-maturing-digital-payments-ecosystem/
- 6. https://timesofindia.indiatimes.com/business/india-business/cash-Still-king-as-digital-payments-inch-up-Slowly/articleshow/6155412.cms
- 7. https://www.livemint.com/news/india-to-have-around-900-million-Internet-users-by-2025-report-11659063114684.html