

# Between Access and Exclusion: A Secondary Analysis of E-Governance and the Digital Divide in India.

## ABSTRACT

"e-governance" is the utilization of ICT to enhance public interactions, processes, and government services. Internet governance has become an essential tool for transforming India's public administration due to its capacity to enhance openness, accessibility, and efficiency. However, in a country as diverse and extensive as India, e-Governance faces a number of challenges. Infrastructure issues, internet security, and the digital divide between rural and urban areas are among these. Low levels of education and bureaucratic institutions' resistance to change may also impede progress. Despite these difficulties, e-government has the potential to offer priceless opportunities for improved service delivery, increased accountability, and a more inclusive government. The utilization of data analytics, cloud computing, and blockchain technology will result in improved service management, reduced corruption, and increased efficiency. The state-by-state e-Governance systems and Digital India programs are contributing to India's progress toward digital empowerment. In India, e-government has the potential to increase participation, efficiency, and transparency in government. The nation can make full use of this potential by utilizing recent solutions like increasing internet penetration rates, increasing digital literacy, and strengthening security frameworks.

**Keywords:** *Digital India, public service, ICT, digital literacy, transparency, cyber security.*

## INTRODUCTION

The concept of utilizing information and communication technology (ICT) in government with the intention of enhancing service delivery, increasing transparency, and streamlining operations is referred to as "e-Governance." With a population of more than 1.4 billion, India has a great opportunity to revolutionize citizen-government communication via E-Governance. The digital transformation aims to close the gap between the government and the people by making the offered services available at any time and coincidentally, facilitating a higher level of public participation and empowerment. The Indian government has already initiated a number of initiatives to enhance e-governance, including Digital India, which aims to establish a society that is fully digitally enabled and a knowledge economy (Banerjee et al., 2020). Digital infrastructure, online service delivery, and digital literacy are all set to benefit from these. However, India's e-Governance implementation is fraught with difficulties. Inadequate internet infrastructure, digital literacy, data security, and privacy issues, as

well as severe access disparities between urban and rural areas, prevent it from realizing its full potential. In addition, the government's structure's aversion to change and a lack of training for human resources make the shift to digitalizing services a difficult process. Despite these obstacles, e-Governance offers several benefits, including better administrative procedures, less corruption, and more accountability and openness in government. By utilizing cutting-edge technologies like cloud computing, blockchain, and artificial intelligence, India has a chance to streamline the civil service machinery, establish an open and responsive government, and promote inclusive development. Hence, e-Governance in India encounters many obstacles; nonetheless, the advantages outweigh the disadvantages, and it has the potential to provide a solution for a system of government that is effective, transparent, and inclusive (Devanesan & Chandrasekaran, 2011).

#### **A. Objectives of the Research**

1. Examine Digital India's contribution to the country's expansion of e-governance.
2. to contrast the accessibility to the internet in metropolitan and rural areas
3. Recognizing the obstacles to government and digital inclusion

#### **B. Research Problem**

Even though the Digital India initiative has made significant progress, a significant portion of the population remains unable to access digital services due to a lack of digital literacy, infrastructure, and socioeconomic disparities. This creates a dichotomy in which digital growth and exclusion coexist and raises questions about the inclusiveness of e-governance in India.

### **REVIEW OF LITERATURE**

**Sumanjeet. (2006).** An Overview of Electronic Governance in the Indian Setting. This article provides a succinct overview of e-Governance in India, including its background, impact, and potential applications in updating public administration. It is published in the Indian Journal of Political Science, Volume 67, Issue 4, Pages 857-866. It discusses the advantages of ICT in enhancing government transparency, efficiency, and public engagement, as well as the difficulties associated with implementing e-Governance in a nation as diverse as India. We discuss the primary issues, which include opposition from the government, low internet literacy, and inadequate infrastructure. The study suggests that, if implemented correctly, e-Governance could improve service delivery and transform India's governance system at the same time.

60 **Saxena, A. (2005).** An Examination of India's E-Government and Good Governance: The Indian Context,  
61 66(2), pages 313–328: This article focuses on the impact of e-Governance on ethical leadership in India. It  
62 delves at how the government may improve its operations via the use of ICT while maintaining openness and  
63 accountability. People can easily access government services thanks to digital technologies, which encourages  
64 active response and reduces corruption. In addition to outlining the successes and failures of the e-Governance  
65 project, the article offers suggestions on how the initiative might be effectively applied to improve India's  
66 governance procedures .

67 **Sreekumar, S. S. (2005).** The Andaman and Nicobar Islands Revisited: Electronic Governance Volume 66,  
68 Issue 2, pages 329–340, Indian Journal of Political Science: Problems in providing government services to the  
69 geographically isolated Andaman and Nicobar Islands are the focus of this article, which examines the rollout  
70 of e-Governance there. It examines how ICT has made it easier to remove geographical and infrastructure  
71 barriers that prevented people from accessing public facilities. The regional successes and failures of various e-  
72 Governance initiatives, including the online delivery of services related to the government, are discussed in this  
73 article. The essay argues that digital transformation may improve service delivery even in remote areas after  
74 technological and resource constraints are removed.

75 **Bhatnagar, S. (2013).** Corruption in the delivery of services and electronic government the authors of this  
76 Economic and Political Weekly article (48(1), 35–37) examine how e-governance could assist India in  
77 combating corruption in the delivery of public services. According to the report, we may significantly reduce  
78 the likelihood of corruption by utilizing digital platforms that make government-driven processes more  
79 accountable and transparent. Better service provision and reduced corruption levels were the outcomes of e-  
80 governance programs in many case studies discussed in the study. It suggests that technological openness will  
81 foster trust between the state and its citizens as a component of overall government success .

82 **Hongal, D., & Kshirsagar, Y. (2024).** An Examination of the Indian Digital Divide and E-Government in  
83 Practice. In the International Journal of Scientific Research in Engineering and Management, Volume 8, Issue  
84 9, Pages 1-12 (2008), infrastructure, digital literacy, and policy support are a few of the challenges that this  
85 study examines in relation to the difficulties that arise when implementing e-Governance in India. It highlights  
86 the need for government initiatives to increase digital literacy and identifies gaps in the technological  
87 infrastructure, particularly in rural areas. The study also addresses bureaucratic resistance to change and  
88 inadequate government employee training. Last but not least, the study suggests a strategy for the successful  
89 implementation of e-Government, emphasizing the significance of robust legislative frameworks and public-  
90 private partnerships.

## **A. Research Gap**

In India, e-governance and digital transformation have received a lot of study, but the paradox of inclusion, or the idea that more digitalization does not always mean more equal access, has not received nearly as much attention. On top of that, ground-level digital inequality and policy assessment are not well integrated. This study uses secondary data to examine exclusion patterns and the effects of governance to fill this knowledge gap.

## **I. RESEARCH METHODOLOGY**

The primary technique for gathering information for this study was relying on previously published studies. By reviewing the existing literature, which includes academic journals, government reports, policy papers, case studies, and other scholarly publications, this study delves into the history of e-Governance as well as its current state. The literature study was useful in identifying overarching themes, such as the need for improved infrastructure, the importance of digital literacy and open government, and the possibilities offered by emerging technologies like blockchain and AI. Analyses of reports produced by national and international organizations, such as the Ministry of Electronics and Information Technology (MeitY) and the World Bank, yield additional information regarding the e-Governance project's progress in various Indian states. The study also compares studies from other countries to help India learn from them. Data from government statistics and trend analysis are looked at to see how e-Governance affects public service delivery and citizen participation. By using a secondary research strategy, we were able to get a better understanding of the challenges, successes, and gaps associated with e-Governance in India, which in turn helped us develop policies and recommendations based on solid data.

### **A. Digital Divide: Challenges in Reaching Urban and Rural Populations**

The digital divide continues to be a significant obstacle for India's e-Government initiatives today. The digital divide, often called the urban-rural divide, refers to the disparity between rural and urban regions in terms of internet access, digital literacy, and other technological resources. While urban areas in India are becoming linked to modern infrastructure, digital tools, and high-speed internet, rural areas still face significant barriers to accessing these resources. Inadequate infrastructure, such as a lack of power and low internet bandwidth, makes it difficult for rural residents to use online government services. Since city dwellers are more likely to reap the advantages of e-Government, this results in an uneven distribution of those benefits. Additionally, because most rural areas have not been digitalized, it is more difficult for people there to use internet services. It's possible that many people who live in rural areas, particularly those who are approaching retirement age, lack the computer literacy necessary to make good use of e-Government resources. Rural residents may also

123 experience a sense of isolation as a result of this divide if they are unable to participate in the increasingly  
124 digitalized governmental procedures. The only way to close the digital divide is to heavily invest in  
125 infrastructure, such as expanding internet access to rural areas. Additionally, in order to enable individuals to  
126 participate in e-Government systems, it is essential that government actions digitize the rural population,  
127 especially the grassroots education system. It is essential to include rural residents in digital governance in  
128 order to accomplish the primary objective of e-Governance, which is to ensure that all citizens have equal  
129 access to public services (Saxena, 2005).

### 130 **B. Ensuring Cyber security and Data Privacy in E Governance Systems**

131 With the advent of widespread digital governance, protecting citizens' personal information and data has  
132 become an urgent issue in India. The likelihood of a data breach, cyberattack, or disclosure of private  
133 information grows in proportion to the amount of personal data collected by eGovernment platforms. Cyber  
134 security is important for two reasons when it comes to electronic governance: first, it protects sensitive  
135 government data and, second, it gives people faith in electronic systems. The sensitive data that the e-  
136 governance systems manage include personal address, identity, and financial information. Hacking these  
137 systems could lead to the theft of personal information, the fraudulent use of funds, and public distrust of  
138 government services. Inadequate cyber defenses also leave the government vulnerable to hackers who  
139 compromise data integrity and interfere with service delivery. Encryption, multi-factor authentication, regular  
140 vulnerability scanning, and monitoring of e-Government systems are some of the best practices for preventing  
141 these hazards in cyberspace. It is necessary to implement data privacy regulations like the Personal Data  
142 Protection Bill in order to guarantee that the personal information of individuals is handled in an ethical and  
143 open manner. In addition, government employees must continue receiving cyber security protocols education  
144 and training in order for these protocols to spread throughout the public sector. As a result of the increased  
145 focus on cyber security and data privacy, more people will get involved in e-Governance, which will help make  
146 it safe for citizens to use online government services (Srivastava, 2016).

### 147 **C. Enhancing Transparency and Accountability through Digital Platforms**

148 The promise of e-governance is that it will change the way government agencies ensure transparency and  
149 accountability. Digital platforms make it possible for more precise surveillance and monitoring, as well as for  
150 the public to participate in the process of governing, which may significantly reduce the corruption and  
151 inefficiencies that are prevalent in traditional government systems. An essential aspect of eGovernment that  
152 contributes to its transparency-enhancing capabilities is the digitalization of public documents and government  
153 transactions. The online platform might make it possible to view government spending, policy changes, and the  
154 effectiveness of social welfare programs in real time. Individuals have the ability to hold the government

155 accountable for its actions because this data is easily accessible through e-Government technologies. For  
156 instance, individuals can track the status of their service requests and see how much the government spends on  
157 various development projects with the money they pay in taxes. In addition, citizens can participate in systems  
158 like online grievance redress and feedback systems thanks to digital platforms. As a result, the participatory  
159 government system is more transparent, providing individuals with services and giving them a voice in  
160 policymaking. Additionally, e-governance may assist in reducing corruption by lowering the threshold for  
161 human intervention in service delivery. Bribery and other corrupt activities are less likely to occur when regular  
162 government tasks, such as issuing permits, processing subsidies, and disbursing welfare payments, are  
163 automated. By digitizing these services and putting them on a more open platform, e-Governance makes  
164 government more accountable by making it possible for people to track government actions and get services  
165 fairly (Bhatnagar, 2013).

#### 166 **D. The Importance of Digital Literacy in the Adoption of E-Governance**

167 To successfully implement an e-Governance program, the idea of digital literacy is crucial. As India continues  
168 its transition to a digitally empowered society, it is critical that its people have access to the government-  
169 provided digital tools and platforms. The elderly, those living in rural areas, and low-income communities are  
170 among the most disadvantaged groups, and their lack of computer literacy will make even the most well-  
171 planned e-Government programs a failure. Digital literacy is the capacity to comprehend the big picture of how  
172 to use internet services, navigate platforms, and generally make good decisions in this digital environment. Its  
173 failure can prevent citizens from using vital government services like getting subsidies, getting healthcare,  
174 paying taxes, or participating in online civic activities. Not being tech-savvy is also likely to keep a large  
175 portion of the population from benefiting from e-Government. If initiatives on digital literacy are to reach a  
176 large number of people, they must be incorporated into school settings, community outreach programs, and  
177 government-sponsored campaigns. Not only do these programs focus on the technical aspects of data security,  
178 privacy, and online conduct, but they also strive to create desire and awareness of these effects. For older and  
179 less tech-savvy populations, training provided by the local center, NGOs, or community workshops could also  
180 help bridge the gap. The population's level of digital literacy determines whether or not e-governance will be  
181 successful. This ensures that everyone has equal access to the benefits of digital governance, which in turn  
182 increases participation and reduces opposition to new technology (Hongal & Kshirsagar, 2024).

#### 183 **E. Policy and Regulatory Framework for Effective E Governance Implementation**

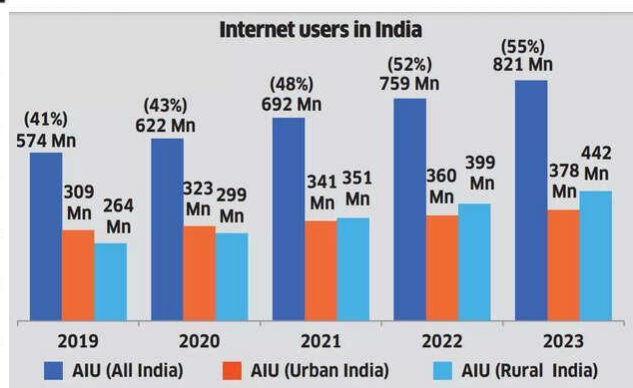
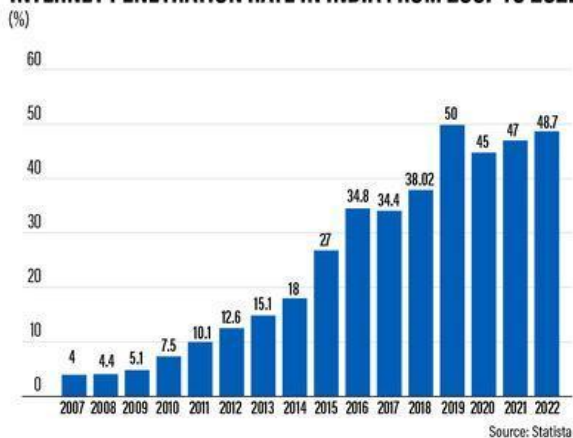
184 India cannot successfully implement e-government without a clearly defined regulatory framework. Given the  
185 vast and complex socioeconomic and political environment of the nation, it is necessary to implement a clearly  
186 defined strategy in order to address the challenges posed by digital transformation. The framework ought to

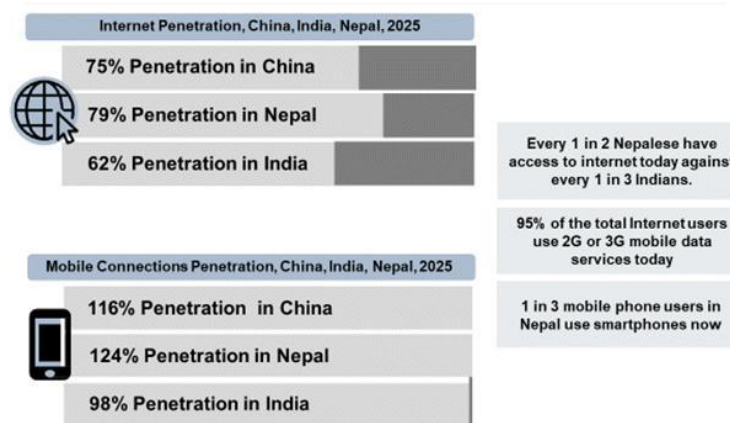
include explicit guidelines for the creation, implementation, and upkeep of electronic government systems in order to guarantee processes that are consistent across all states and sectors and to also take into account the distinctive characteristics of various communities. Digital infrastructure, cyber security, and data protection should be the primary concerns of the policy framework. If there are transparent standards, privacy laws, and cyber protections in place, people will have more faith in online services. Citizens may be hesitant to provide personal information online in the absence of these regulations, which might hinder the success of e-Government programs. The creation of interoperable technologies should also be a goal of regulatory frameworks; this will allow different levels of government and different agencies and departments to communicate with each other without barriers. As a result, disjointed service inefficiencies would be eliminated and the public would receive more integrated services. In addition, the framework ought to facilitate the application of cutting-edge technologies like artificial intelligence (AI), cloud computing, and blockchain, all of which have the potential to transform e-Government by making it more open, accountable, and effective. And last but not least, it's important to come up with rules that encourage inclusion, so that all individuals, regardless of their socioeconomic status or location, may use e-Government services (Yadav, 2010). Through the implementation of end-to-end support rules, India would be able to implement e-Governance systems that are transparent, scalable, and efficient, allowing for increased citizen participation in policymaking

## II. DATA ANALYSIS & INTERPRETATION

### A. Trend Analysis of Digital Growth in India (2010–2025)

**INTERNET PENETRATION RATE IN INDIA FROM 2007 TO 2022**





Between 2010 and 2025, India's digital environment will undergo a significant transformation as a result of rising smartphone penetration, government initiatives like Digital India and BharatNet, and other factors.

**Table 1: Internet Penetration Growth in India**

Source: TRAI (2024); ITU (2023); MeitY (2023)

Year	Internet Users (%)	Rural (%)	Urban (%)
2010	7%	2%	20%
2015	27%	15%	55%
2020	50%	30%	70%
2023	60%	40%	75%
2025*	70%	50%	85%

➤ **Key Trend Findings**

**1. Rapid Digital Expansion**

- From 2010 to 2025, the percentage of people with internet access roughly quadrupled.
- driven by the cheap internet provided by the Jio revolution and the widespread availability of smartphones (Mukherjee, 2019)

**2. Persistent Urban–Rural Gap**

- Urban access consistently remains **20–30% higher than rural**.

- Indicates unequal digital infrastructure

### 3. Growth in E-Governance Usage

- Digi Locker, UMANG, and Aadhaar's services expanded quickly.
- Digital transactions and service delivery are on the rise.

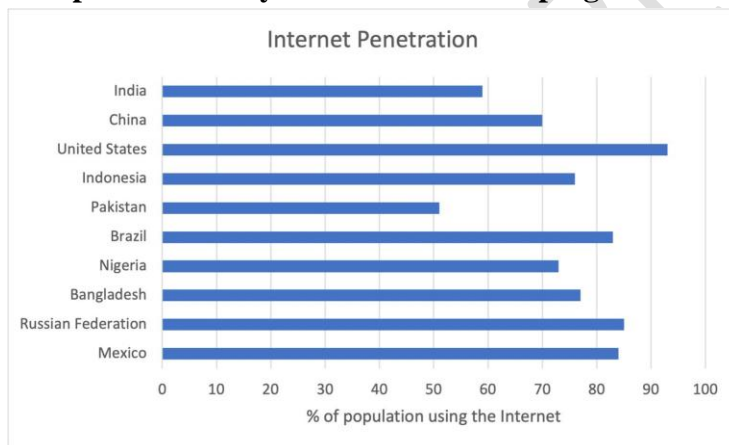
### 4. Shift Toward Digital Governance

- The rate of government service digitization is rising.
- Direct Benefit Transfer (DBT) and online grievance mechanisms have been on the rise.

#### ➤ Analytical Interpretation

This pattern supports the claim that progress does not guarantee equality because, despite the rapid growth of digital usage, inclusion has been uneven.

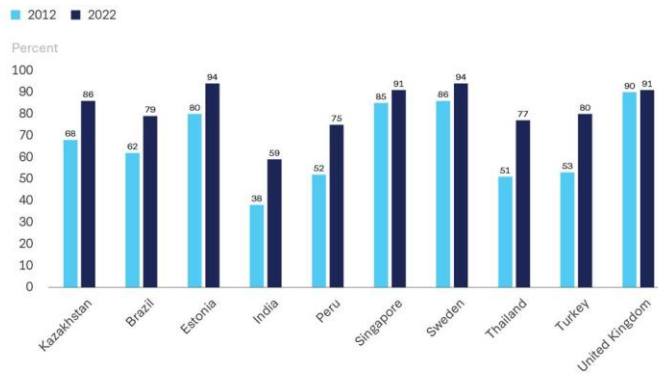
### B. Comparative Analysis: India vs Developing Countries



(Source: Data adapted from World Bank (2024) report and ITU World Telecommunication)

FIGURE 2

**United Nations E-Government Development Index (EGDI), 2012 and 2022**



Source: "E-Government Development Index (EGDI)," United Nations Department of Economic and Social Affairs, <https://publicadministration.un.org/egovkb/en-us/About/Overview/-E-Government-Development-Index>.

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A comparative study is one way to compare India's position in the international digital arena to that of other emerging nations.

**Table 2: Comparative Digital Indicators (2023–2025)**

Source: United Nations (2022); ITU (2023); World Bank (2023)

Indicator	India	Brazil	Indonesia	Sub-Saharan Africa
Internet Penetration	~60–70%	~75%	~65%	~40%
Rural Connectivity	Moderate	High	Moderate	Low
Digital Literacy	Moderate	High	Moderate	Low
E-Governance Development	High	High	Moderate	Low
Digital Divide	High	Moderate	Moderate	Very High

➤ **Key Comparative Insights**

1. **India vs Brazil**

- Digital literacy and connection in rural areas are better in Brazil.
- Inclusion remains a problem in India, regardless of how big the issue is.

## 2. India vs Indonesia

- problems that are comparable in population and location.
- Both have a mixed level of digital inclusion, with a noticeable disparity in rural areas.

## 3. India vs Sub-Saharan Africa

- India leads the pack in terms of governance and infrastructure.
- There are significant socioeconomic disparities in both areas.

### ➤ Analytical Interpretation

- India is a **global leader in digital governance scale**, but not in **equitable access** (United Nations, 2022)
- The **digital divide in India is structural**, influenced by:
  - Income inequality
  - Education levels
  - Regional disparities

## III. RESULTS & DISCUSSION

### A. Impact of Digital India

The Digital India program has significantly altered the delivery of public services in India by integrating ICT into governance processes. A few of the new platforms that have improved the accessibility, efficiency, and openness of government services include Direct Benefit Transfer (DBT), Digi Locker, and UMANG (Ministry of Electronics and Information Technology, 2023).

- Reduction in bureaucratic delays and corruption
- Improved transparency through digital records
- Increased citizen participation via online platforms
- Expansion of digital financial services (UPI, DBT)

### B. Persistence of Digital Divide

Despite the rapid expansion of the internet, the digital divide persists across numerous dimensions, including gender, location, income, and educational attainment. Rural areas continue to have unreliable internet service,

and underprivileged groups typically have a harder time gaining access to digital technology (International Telecommunication Union, 2023).

- Significant rural–urban gap in internet access
- Low digital literacy among rural and elderly populations
- Gender disparities in digital access
- Limited affordability of digital devices for low-income groups

### **C. Governance vs Inclusion Gap**

The divide between governance and inclusion emphasizes the contradiction between people's access to and use of digital services and their availability. Many people are still unable to participate in e-governance platforms due to technical and socioeconomic obstacles, despite their rapid growth (United Nations, 2022).

- Availability of services does not ensure accessibility
- Lack of awareness about digital services
- Limited usability due to language and interface barriers
- Exclusion of vulnerable groups (elderly, rural poor)

### **D. Policy Effectiveness**

The government initiatives that make up Digital India have been important in order to build digital infrastructure and encourage e-governance. BharatNet, cybersecurity frameworks, and digital literacy missions have all contributed to an increase in digital growth (Ministry of Electronics and Information Technology, 2023).

- Improvement in broadband connectivity in rural areas
- Increased digital awareness through literacy programs
- Strengthened cybersecurity measures
- However, implementation gaps still exist

## **IV. RESEARCH FINDINGS**

The benefits and drawbacks of going paperless have been mixed in the research on e-Governance in India. Digital India, which provides digital service delivery in the areas of healthcare, education, welfare, and taxes, is one example of how the Indian government has been actively decentralizing some of its services. These changes have led to less bureaucracy and more transparency, which has also increased public engagement. Residents have been empowered by the increased accessibility of information and the increased openness of government services by, for instance, making land records digitally accessible and establishing an online grievance redress

297 procedure (Palekar, 2010). However, the report does highlight some significant challenges, particularly those  
298 associated with the digital divide between urban and rural areas. Even though urban areas have better  
299 infrastructure and internet connections, rural areas continue to face issues such as low internet penetration,  
300 irregular power production, and a lack of access to digital devices. Another major obstacle to successful e-  
301 Government deployment, especially in underprivileged areas, is digital illiteracy. A lot of people, especially in  
302 more remote areas, don't know about or can't use all the digital resources they have at their disposal. The  
303 public's faith in digital systems is also dwindling due to concerns about data privacy and cyber security. Data  
304 breaches and cyberattacks have affected government websites and platforms, causing citizens to worry about  
305 the security of their sensitive information (Sreekumar, 2005). Finally, the research highlights the significance  
306 of a well-designed legislative framework to support the efficient rollout of e-Government, which should adhere  
307 to standards for infrastructure development, digital literacy, data security, and cross-sector integration. In  
308 conclusion, e-governance holds tremendous promise for improving service delivery; however, these concerns  
309 must be addressed in order to realize this promise.

## 310 V. CONCLUSION

311 In conclusion, we might say that E-Governance in India has the potential to completely reshape the operations  
312 of the government, making public services more user-friendly, open, and efficient. Initiatives like Digital India  
313 have made significant progress in the areas of corruption reduction, citizen engagement, and digitization of the  
314 public sector. However, widespread adoption of e-Government is still a long way off. A major obstacle to its  
315 success is the persistent digital divide between rural and urban areas, as well as low levels of digital literacy,  
316 data privacy concerns, and cyber security risks. In rural areas, it is more difficult to use digital services because  
317 of ongoing infrastructure issues like slow internet connections and a lack of equipment. Additionally, a lot of  
318 people lack the digital skills necessary to use the e-Government systems, which is why adoption is low. Gaining  
319 faith in digital systems also requires securing personal data. In order for India to potentially reap all of the  
320 benefits of e-Governance, it is necessary to address the issues that currently exist when using improved  
321 infrastructure facilities. It is also necessary to have a solid regulatory framework that can support inclusive and  
322 efficient digital governance. India was able to establish a government that was more open, accountable, and  
323 participatory after these issues were resolved, which was beneficial to all of its citizens (Banerjee et al., 2020).

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