

Exploring India's Journey in Digital Governance Transformation

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Abstract

Improved data and knowledge sharing between individuals and companies has made it possible for new kinds of organization to emerge as a result of the rapid spread of digital technologies. The everyday lives of people all over the world have been completely transformed by information, communication, and technology, or ICT. The development of technologies such as chatbots, cloud computing, artificial intelligence, web 1.0 to 5.0, and the Internet of things has altered both public and private sector governance. To manage their daily operations, governments all around the world are embracing e-governance. The effective provision of public services has been made possible by the use of information and communication technologies. Building confidence with the government has been facilitated by the digitization of public services. Enhancing public administration and governance has emerged as the nation's top goal for socioeconomic development. The conventional method of conducting business has been altered by the internet. The primary objective of this study is to provide a thorough and in-depth analysis of India's e-governance initiatives as they are right now. E-government has become a key driver of transparency, good governance, and citizen-cantered service delivery across the nation. The study will thoroughly examine the various e-governance programs that the Indian government has put in place, illuminating their goals, salient characteristics, obstacles faced, and revolutionary effects on the country's governance environment.

Keywords: ICT, Digital Governance Initiative by India, Digital Governances, Projects

I. Introduction

World-wide governance systems have been completely transformed by the rapid growth of digital technology, and digital governance has emerged as a major force behind transparency, administrative effectiveness, and public empowerment. The Indian government has made considerable attempts to utilize the possibilities of Digital-governance projects to improve the general governance framework and revolutionize the provision of public services. Using information and communication technologies to enhance government procedures is known as "digital governance" [1]. Every government in the world understands the value of government. When properly designed and executed, e-government can improve citizen participation and trust in the government, streamline compliance with government regulations, boost the efficiency of government service delivery, and save costs for businesses, residents, and the government itself. Consequently, administrators and policymakers in both the most and least developed nations are seeking to adopt e-government. Digital platforms and tools have completely changed how people participate in the political process in democracies. Online portals, mobile applications, and social media have emerged as essential platforms for civic involvement, voter mobilization, and political communication [2]. By allowing direct communication between the public and the government, these platforms promote a more active kind of democracy. Digital technologies have also been used by the Indian Election Commission to improve electoral transparency, expedite voter registration, and guarantee more effective election administration. Digital revolution has also greatly improved India's good governance. Initiatives for e-governance have streamlined administrative procedures, cutting down on red tape and increasing accessibility to public

services. Digital payment methods and the Aadhaar biometric identification system are two examples of innovations that have enhanced the way government services and subsidies are delivered, guaranteeing that benefits reach the right people and lowering the likelihood of corruption. E-procurement platforms and open data efforts have improved accountability and openness of the government. Every element of life is impacted by digital transformation, including the government, the economics, geopolitics, and the interactions of regular people. It is evolving so quickly that some technologies, particularly artificial intelligence, seem poised to usher in a revolutionary shift in the near future. Any utilization of digital tools, technology, and applications—from blockchain and artificial intelligence to process digitization—is referred to as digital transformation. When it comes to public administration and governance, digital transformation opens up new ways of working, interacting with individuals and civil society in general, and serving the general public. Digitalization extends beyond the process of converting data or information from analog to digital or binary, enabling efficient online communication.

The systems, guidelines, and procedures that guarantee the ethical, secure, and public-interest management of digital technology, data, and information are collectively referred to as digital governance. As organizations struggle with the challenges of adopting new technologies, such as data security and system transformations, this idea has garnered a lot of popularity.

II. Information and Communication Technology (ICT)

The foundation for India's digital transformation was established by the Information Technology Act of 2000. It established the legal foundation required for digital signatures and electronic transactions and was the nation's first comprehensive law on digital governance. The term "information and communication technology" (ICT) encompasses a wide range of tools and technologies used for electronic information management and interchange. Computers, software, networks, telecommunications systems, and other electronic equipment are all included in this. Data and information may be created, stored, processed, transmitted, and retrieved more easily because to ICT. In other words Information and communication technology, or ICT for short, refers to all technologies that are used to handle, process, and exchange information. ICT is essential to modern society because it has changed the way we work, communicate, and learn. It improves connectivity, makes data sharing easier, and makes it possible for people in different industries, like business, healthcare, and education, to work together [3]. For example, ICT facilitates e-commerce, telemedicine, and remote learning, increasing the effectiveness and accessibility of services. As it combines people, procedures, information, and technology to support governance activities, e-governance is seen as the ICT-enabled path to effective governance. The world's developing nations rely heavily on information and communication technologies (ICTs) for economic development and expansion. Today's political, cultural, socioeconomic, developmental, and behavioural choices is predicated on the capacity to obtain, compile, evaluate, and apply knowledge. Information and communication technology (ICT) is the means by which people can expand their options for social and economic empowerment. In a few years, people all over the world will have internet-connected handheld computers with them at all times so they can access global information [4].

ICT is essential to contemporary communication, data management, and technology infrastructure in general, allowing a variety of industries, including business, education, healthcare, and more, to collaborate globally and function effectively.

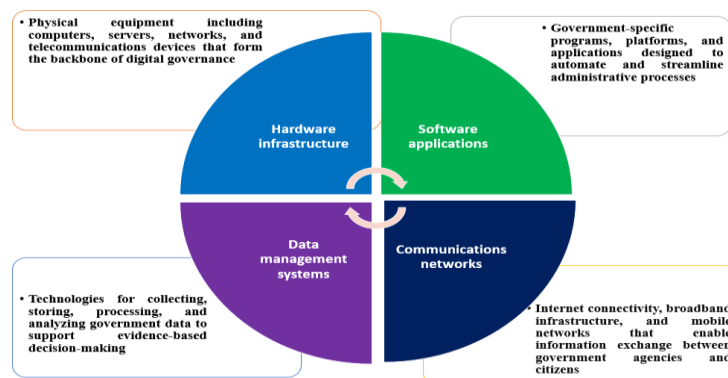


Fig1: Components of ICT

The term "ICT infrastructure" refers to the hardware, software, and services related to ICTs, such as grid networks for power and telephone (Gesci 2007). ICT infrastructure can be divided into hardware, which includes computers, phones, LAN networks, hubs, printers, scanners, television sets, fax machines, codec cameras, projectors, radios, video, CDs, audiotape players, and microphones (Akinsola et al., 2005). Windows and Microsoft Office are examples of the software component of ICT infrastructure [5].

III. Digital Governance Initiative by India

Digital-governance energies have become a keystone of India's governance landscape, retaining technology to upsurge service delivery, abridge administrative processes, and boost citizen partaking. This section gives a summary of India's digital -governance efforts, emphasizing its goals, implementation tactics, consequences, and difficulties. Hon. Prime Minister Shri Narendra Modi introduced the Government of India's flagship initiative, Digital India, on July 1, 2015, with the goal of transforming the country into a knowledge economy and society empowered by technology. Through the expansion of the digital economy and job opportunities, as well as the digital delivery of services, Digital India has been enhancing the lives of all its residents [6].

The Digital India Initiative of the Indian government aims to transform India into a technologically equipped knowledge-driven economy and society. A vast array of projects and activities are included in this ambitious program with the goal of using technology to improve government.

Enhance service provision and encourage digital inclusion. E-Hospital, MyGov, BharatNet, and Digital Locker are a few noteworthy initiatives under the Digital India Initiative (Government of India, 2014). By eliminating the necessity for hard copies and empowering expedient access to essential information, the Digital Locker gives citizens a safe digital storage solution for key documents and certificates. The goal of the eHospital initiative is to enable online medical record digitization and streamline healthcare services. Consultations via telemedicine, appointments, and the administration of medical records. MyGov is an interactive website that encourages public participation and engagement by giving people a place to voice their opinions, recommendations, and comments on a range of government programs and policies. The ambitious BharatNet initiative, on the other hand, aims to close the digital divide and provide everyone with access to digital services and access by extending high-speed broadband connectivity to rural areas. India's governance, service delivery, and citizen empowerment have all been significantly impacted by the Digital India Initiative. It has enhanced access to administration services, abridged bureaucratic processes, and heightened transparency. Digital platforms have made it easier for citizens to obtain government information and services, saving them time and effort. In addition to promoting economic growth and development, the effort has helped create jobs, entrepreneurship, and innovation in the digital sphere (Government of India, 2014). With multiple landmarks and flagship projects accomplished, the Digital India program has shown a steady upward growth trajectory. These achievements cover a wide range of areas, such as creating digital governance, public internet access initiatives, universal mobile connectivity, and broadband highway development. India ranks third in terms of economic digitization, according to the State of India's Digital Economy Report, 2024, which was released by the Indian Council for Research on International Economic Relations (ICRIER). India's third-place rating has been largely attributed to its internet infrastructure. The government has outlined a comprehensive plan to empower residents through social welfare programs, skill development, and education, with a strong focus on achieving the objective of a "Viksit Bharat," or a developed India by 2047[6]. The National e-Government Plan was India's first all-encompassing strategy for digitizing government services, and it was introduced in 2006. Through standardized service delivery channels, NeGP sought to render all public services approachable.

IV. Implementation of Digital Governance

In India, it started as an administrative reform and developed into a full system of technology-based public service delivery. It facilitates direct citizen-government interaction, streamlines access to government benefits, and unifies agencies. India is revolutionizing citizen-government interactions at all levels with initiatives like Digital India (2015). The groundwork for digital public services was established by the National e-Government Plan (NeGP), which was introduced in 2006. This goal was then broadened by the Digital India Mission (2015), which linked communities, made digital transactions possible, and made sure that all citizens could access government services online. E-Government in India currently encompasses around 31 Mission Mode Projects (MMPs), encompassing sectors such as income tax filing,

land records, passports, pensions, and rural development, according to the Ministry of Electronics and Information Technology (MeitY). A number of state governments have developed a roadmap for IT adoption and online service delivery, as well as taking other creative actions to advance e-Government. Government to Business (G2B), Government to Government (G2G), and Government to Citizen (G2C) services are the focus of the implemented apps, which prioritize the usage of local languages. Each State is free to choose up to five more State-specific Mission Mode Projects that are pertinent to the State's economic development.

Table1: State-specific information about e-Government projects

Madhya Pradesh <ul style="list-style-type: none"> Online Voter List Government Orders and Acts Online Pension Calculator Online Text book High Court Judgement and orders Online Grievance Redressal Public Utility Forms Cause List of MP High Court Daily Mandi Rate Online land records Tele Samadhan Online Employment Exchange Transport Services Child Record Information System Citizen Charters Gyandoot 	Gujarat <ul style="list-style-type: none"> Mahiti shakti Online Application Forms Government Resolutions (GR) Book Online Gujarat Bank of Wisdom Online Registration with Employment Exchange e-City - A one stop civic shop Jan Seva Kendra e-Dhara Registration of Documents SWAGAT - State Wide Attention on Public Grievances by Application of Technology E-Gram Viswa Gram Project 	Rajasthan <ul style="list-style-type: none"> E-Mitra Raj stamps SSO Rajasthan Portal Emergency Services Online BPL List Online Citizen Charter Acts and Policies Transport Services Rajasthan Police Online Electoral Rolls Common Service Centre Scheme Web Directory Government Tenders Gang Canal Regulation Computerization Project Silicosis Care TB Mukh Gram Panchayat Abhiyaan 	Tamil Nadu <ul style="list-style-type: none"> Employment Online Public Utility Forms Transport service Online Land Records Online Text Books Grievance Redressal Cause list of Madras High Court Online Electoral Roll Online Citizen Charters Electricity tariff calculator Tender Notice Website directory 	Tripura <ul style="list-style-type: none"> Public Utility Forms Hospital Management System Agartala Municipal Corporation Online Cause Lists Online name search in electoral rolls Online blood donor information system Examination Results Transport Information System e-Suvidha - Service Facilitation Centre (SFC)
Manipur <ul style="list-style-type: none"> Online Government Notification Online Employment Exchange Online e-mail ID Application Form Online Exam Results Online High Court Judgement Public Representatives Transport services Social welfare department Minority and OBC department Health Services Electoral Roll 	Maharashtra <ul style="list-style-type: none"> Rojgar Wahini SARITA - Stamps & Registration Information Technology based Administration SETU - Integrated Citizen Facilitation Centres Kalyan-Dombivli Municipal Corporation (KDMC)-Citizen Facilitation Centers (CFC) eRegistration (Self Help Portal) for Document Registration 	Odisha <ul style="list-style-type: none"> Online Issuance of disability Certificates Bhulekh - Land Record Web portal of Odisha Download Forms Website E-Shishu ITIMS - Integrated Transport Information Management System Online citizen services offered by Revenue & Disaster Management Department, Odisha e-Abhijoga e-Literacy 	Kerala <ul style="list-style-type: none"> Akshaya Online Job Registration e-mail to CM & Minister Online Motor vehicle services Online civil supplies department BhuRekha FRIENDS 	Jammu & Kashmir <ul style="list-style-type: none"> Community Information Center - CIC Online Employment Exchange Information Online Motor Vehicle Information and Procedures GAASH e-Suvidha Panchayat Development Index
West Bengal <ul style="list-style-type: none"> Telemedicine: Midnapore Smart Card Computerization of Government Departments GIS for Municipalities Public interfaces through info kiosks/websites Higher Education Department Tourism Department Information & Cultural Affairs Department Geographical Information System West Bengal State Wide Area Network (WBSPAN) IT Enabled Braille Education for the Blind Schools of West Bengal and Augmentation of Infrastructure 	Mizoram <ul style="list-style-type: none"> Electoral Rolls Telephone Directory Tender notice Transport Services Mizoram Gazette 	Delhi <ul style="list-style-type: none"> Grievance Redressal Public Utility Forms Employment Exchange Transport Services Application status finder Tender Notice 	Nagaland <ul style="list-style-type: none"> Online Government Circulars and notifications Online Public Utility Forms Online Voter List Government e Services 	Mizoram <ul style="list-style-type: none"> Electoral Rolls Telephone Directory Tender notice Transport Services Mizoram Gazette
Meghalaya <ul style="list-style-type: none"> Online VAT Application Online agriculture market price District court: Online cause list and judgements Online name search in Electoral Roll Online constituency wise electoral roll Election Application forms Online Public Utility Forms School Result 	Sikkim <ul style="list-style-type: none"> Online Public Utility Forms Online Voters list 	Punjab <ul style="list-style-type: none"> Digital Punjab Online eServices of Punjab Online Public Utility Forms Land Records Management System Saatchi and vahan m-Seva 	Himachal Pradesh <ul style="list-style-type: none"> e-Samadhan - Online Public Grievance Solution Sugam - Integrated Community Information Centre Write to Chief Minister Online Electoral Rolls Online Bus Ticket Booking Examination Result Employment News eGazette HP Police Web portal Online Pensioner's Helpline Online Blood Donor List Online Tenders Website Directory Online Hotel Registration eSalary Online Judicial Services Online Electricity Bill Payment 	
Chhattisgarh <ul style="list-style-type: none"> Online Lands Records Online Grievance Redressal Online Electoral Rolls Choice - Chhattisgarh Online Information for Citizen Empowerment e-mail Directory e-Challan 	Uttar Pradesh <ul style="list-style-type: none"> e-Scholarship Bhulekh, UP Koshwani Court case Information System Online Transport Services GIS based Planning Atlas Lokvani Mine Mitra Chikitsa Setu Smart Ganna Kisan Application status finder 	Haryana <ul style="list-style-type: none"> Online Land Records - BhuLekh/Jamabandi Online Examination Result Online Admission Notice Online Judicial services Public Utility Forms and Procedures Online Citizen's charters Online Collector Rate Department of Employment Government Notification Online Web Directory Transport Services 	Goa <ul style="list-style-type: none"> Issuance of Birth / Death Certificates Collection of Taxes Issuance of Trade Licenses Mutation as part of DHARAN - Land Records Information System 	Uttarakhand <ul style="list-style-type: none"> Online Application forms Online Employment service Online Government Notification Dev bhoomi - Uttarakhand Land Records Online Content Creation / IT Enabled Course Curriculum School Education Portal Third Eye [7, 8, 9, 10, 11]
Bihar <ul style="list-style-type: none"> Online Grievance Registration Jankari Online Electricity Bill Payment E-Gazette Information and Public Relations Department Website Directory Government Tender 	Andhra Pradesh <ul style="list-style-type: none"> Online Citizen Friendly Services of Transport department (CFST) MeeSeva JnanaBhumi- A Smart Education Portal Spandana Online booking system for sand purchase Directorate of Municipal Administration Andhra Pradesh Police Agriculture services 			

A comprehensive and unambiguous list of the main digital governance initiatives that apply to the entire country of India, meaning that they benefit or serve all Indian citizens on a national scale.

Table2: Projects launched by Government

Project / Initiative	Year Launched	Implementing Ministry / Agency	Main Objective / Features
Digital India Mission	2015	Ministry of Electronics and IT (MeitY)	Umbrella scheme to convert India into a technologically advanced community and knowledge economy. Particular attention: technological infrastructure, electronic governance, and digital literacy.
National e-Governance Plan (NeGP)	2006	MeitY & Department of Administrative Reforms	To enable access to all government services online through Mission Mode Projects (MMPs).
DigiLocker	2015	MeitY (under Digital India)	Offers inhabitants with a secure cloud-based platform to store and access important documents (Aadhaar, license, mark sheets, etc.) digitally.
UMANG (Unified Mobile Application for New-Age Governance)	2017	MeitY & National e-Governance Division	A single mobile app for over 1,000+ central and state government services (EPFO, PAN, passport, etc.).
Aadhaar (Unique Identification Project)	2009	UIDAI (under MeitY)	Offers a distinct 12-digit identifying number to every Indian resident; used for authentication in all digital services.
BHIM / UPI (Unified Payments Interface)	2016	National Payments Corporation of India (NPCI)	Enables fast, secure, cashless digital payments through mobile phones.
National Digital Health Mission (Ayushman Bharat Digital Mission)	2021	Ministry of Health and Family Welfare	Creates a digital health ID for every citizen to access healthcare services digitally.
Digital India Land Records Modernization Programme (DILRMP)	2008 (revamped 2016)	Department of Land Resources	Digitization of land records to ensure transparency and reduce disputes.
National Broadband Mission (NBM)	2019	Department of Telecommunications	Ensures high-speed internet connectivity across India, especially rural areas.
Common	2006 (under	MeitY	Front-end service delivery points providing

Service Centres (CSCs)	NeGP)		digital access in rural and remote areas.
Pradhan Mantri Gramin Digital Saksharta Abhiyan (PMGDISHA)	2017	MeitY	Purposes to upsurge digital literacy in 6 crore rural households.
MyGov Portal	2014	MeitY	Citizen engagement platform for participatory governance and feedback to the government.
e-Kranti (e-Governance 2.0)	2015	MeitY	Initiative under Digital India to transform delivery of e-services across sectors such as education, health, and agriculture.
eNAM (National Agriculture Market)	2016	Ministry of Agriculture	A pan-India electronic trading portal for agricultural produce to connect farmers with buyers.
National Cyber Coordination Centre (NCCC)	2017	MeitY	Strengthens cyber security and protects citizens from digital threats.

In India, Digital governance programs have become important forces behind transparency, administrative effectiveness, and public empowerment. The Indian government has made considerable strides in modernizing service delivery, boosting governance results, and encouraging financial inclusion through programs including the Digital India Initiative, Aadhaar, GSTN, mobile governance, e-government websites and services, and digital payments. These programs have improved transparency, streamlined bureaucratic procedures, empowered citizens, and made it easier for people to obtain government services. To guarantee the successful implementation of e-governance, however, issues including the digital divide, low levels of digital literacy, data security worries, and infrastructural constraints must be resolved.

Vision Digital India, the government's flagship project, aspires to lead India into a technologically enabled knowledge economy and society. The effort is based on three primary vision areas:

- The Use of Digital Infrastructure by Every Inhabitants
- Governance and Demand-Based Services
- Citizens' Digital Enablement

Essential Elements

Highways with Broadband

Access to Mobile Connectivity for All

Program for Public Internet Access

e-Kranti: Electronic Service Delivery Information for All

Electronics Manufacturing Jobs IT for Jobs Early Harvest Programs e-Governance: Using Technology to Reform Government

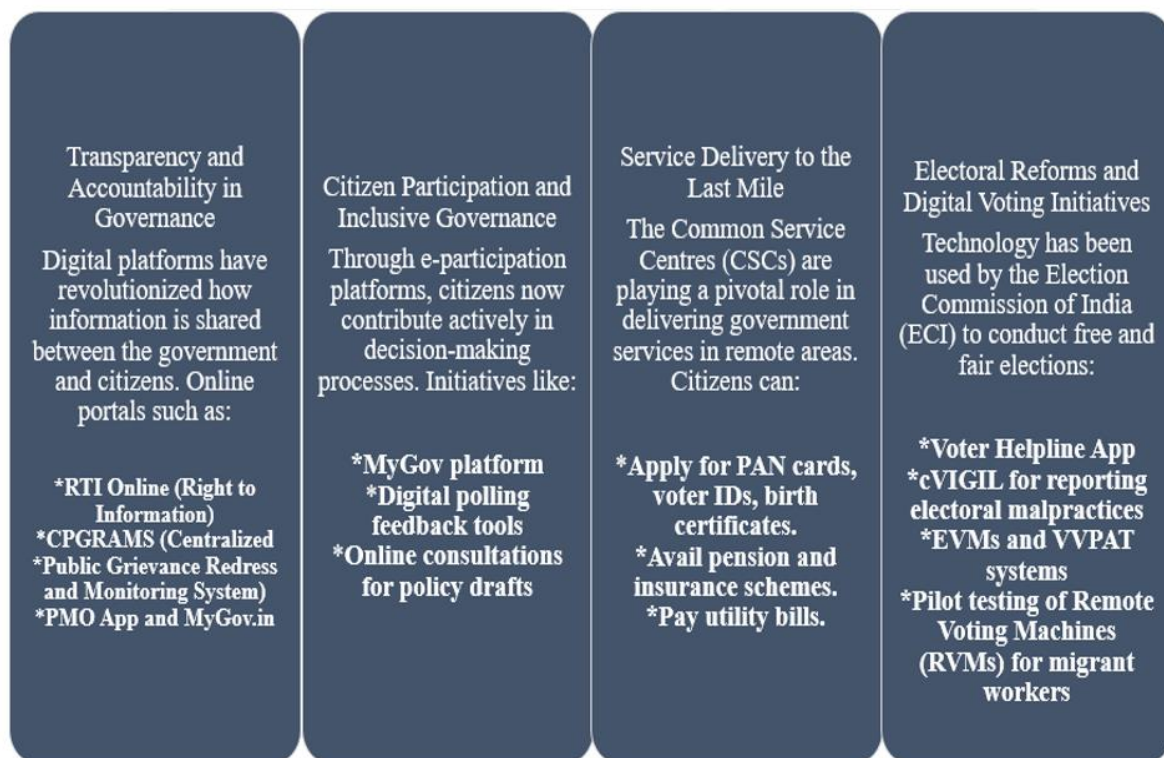


Fig2: Digital India and E-Governance: Strengthening Democratic Institutions [12]

India will commemorate the tenth anniversary of the Digital India initiative on July 1, 2025. Prime Minister Narendra Modi introduced it in 2015 with the straightforward goal of using technology to improve everyone's quality of life in India. The program has genuinely closed the digital divide by providing internet access to isolated areas of the nation and enabling online access to government services. With a few clicks, consumers may now access banking, healthcare, education, and other services.

Additionally, the digital economy is expanding quickly; in 2022–2023 it contributed 11.74% of the national income, and by 2024–2025 it is predicted to contribute 13.42%. ICRIER's State of India's Digital Economy Report 2024 states that India is currently ranked third globally in terms of economic digitization by 2030, it is anticipated that India's digital economy would overtake the growth of traditional industries and contribute around one-fifth of the country's total GDP. Strong digital infrastructure has been established throughout the nation by Digital India over the years. Nearly every village now has mobile connectivity. Everyone may now use the internet thanks to public internet centres. Governance is now quicker and more transparent thanks to digital services. These initiatives have established the groundwork for a genuinely linked India. Total telephone connections in India rose from 93.3 crore in March 2014 to over 120 crores in April 2025, with teledensity increasing from 75.23% to 84.49% by October 2024. Urban connections grew from 555.23 million to 661.36 million, and rural connections from 377.78 million to 527.34 million, between March 2014 and October 2024. In March 2014, there were 93.3 crore telephone connections in India; by April 2025, there were over 120 crore, and by October 2024, the teledensity had increased from 75.23% to 84.49%. While rural connections increased from 377.78 million to 527.34 million during March 2014 and October 2024, urban connections increased from 555.23 million to 661.36 million. There had additional internet connections by 285.53%, from 25.15 crore in March 2014 to 96.96 crore in June 2024. The number of broadband connections increased by 1452%, from 6.1 crore in March 2014 to 94.92 crore in August 2024. As of December 2024, 6, 15,836 of the nation's 6, 44, 131 communities had 4G mobile access. 4G coverage swiftly expanded throughout India starting in 2016. Next came the October 2022 rollout of 5G, which further accelerated digital services. India installed 4.74 lakh 5G towers, spanning 99.6% of districts, in just 22 months.



Fig 3: Initiatives of Government in enhancing Digital Governance

There were 2.95 lakh towers added in 2023–2024 alone. 116 crore customers will be served by this robust mobile network by 2025. The number of internet consumers has increased by 285% in just 11 years. In addition, bandwidth rates decreased from ₹308 per gigabyte in 2014 to just ₹9.34 in 2022, making internet access more accessible to all. Connecting rural India has been a key component of this digital effort. By January 2025, BharatNet had established high-speed internet connections in more than 2.18 lakh Gram Panchayats. Many communities now have access to the internet thanks to the installation of about 6.92 lakh km of optical fiber cable. In a single month in April 2025, more than 1,867.7 crore UPI transactions of ₹24.77 lakh crore were made. UPI is used by 65 million merchants and nearly 460 million consumers [13].

In 2023, 49% of worldwide real-time transactions were handled in India, per the ACI Worldwide Report 2024. Now available in more than seven nations, UPI is promoting financial inclusion and international digital payments. People can access digital services in their native tongue with the help of BHASHINI. It breaks down linguistic barriers with AI. By May 2025, BHASHINI will have 18 language services, more than 1,600 AI models, and support for over 35 languages. It is incorporated into popular platforms like police, NPCI's IVRS systems, and IRCTC. Documentation, ensuring universal access to and inclusion of needed services. BHASHINI continues to empower inhabitants to interact with digital platforms in their preferred language, as evidenced by the more than 8.5 lakh mobile app downloads [14].

Future developments in the field of digital governance in India by 2040 as well as afterwards show an intriguing scene with cutting-edge technology like blockchain and artificial intelligence. These developments will be essential for improving service delivery and keeping confidential data (KPMG India, 2023). "Stakeholder collaboration and ongoing investment will be crucial to realizing this vision," where all interactions with the government are smooth and easy to use.

V. Conclusion

India's revolutionary progress in digital infrastructure demonstrates its dedication to efficiency, inclusivity, and innovation using cutting-edge technology like cloud hosting and AI, India has become a global leader in digital inclusion, as well as through programs like Aadhaar, UPI, and DigiLocker. A digital future that empowers all citizens, promotes socioeconomic growth, and fortifies governance is being paved by the cooperative efforts of government platforms and smooth citizen involvement. In addition to improving India's domestic capabilities, this digital revolution places the country at the forefront of offering scalable digital solutions to the global south. India is poised to reinvent what is possible in the areas of economic development, public service delivery, and governance as it builds on this momentum. Digital India has transformed the country's digital landscape in just ten years by bringing villages online, increasing the transparency of governance, and creating new opportunities for development and innovation. With the widespread use of digital payments, the quick growth of the internet, and innovative projects in AI and semiconductors, India has established a scalable, inclusive, and future-ready digital ecosystem. Digital India is a potent catalyst that is empowering

citizens, bridging divides, and propelling India's rise as a worldwide leader in technology as the nation advances under the Viksit Bharat goal. The upcoming ten years hold the possibility of deeper transformation as well as faster growth, with technology serving as the foundation for a more powerful, intelligent, and independent India.

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