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Catalyzing e-Governance in India: The Impact of State e-Mission Team (SeMT)

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Abstract: This journal explores the pivotal role of State e-Mission Teams (SeMTs) operating under the aegis of the National e-Governance Division (NeGD), Ministry of Electronics and Information Technology (MeitY), in shaping the landscape of e-governance in India. It delves into the conceptual understanding of e-governance and the specific mandate and structure of SeMTs. The paper elucidates the relationship between NeGD and SeMTs, highlighting how the national framework translates into state-level action. Through illustrative case studies of e-governance projects facilitated by NeGD and implemented with the support of SeMTs, the tangible impact on citizen services and government efficiency is examined. Furthermore, the journal identifies key challenges faced by SeMTs and proposes potential future directions for enhancing their effectiveness in fostering a digitally empowered India. Finally, it concludes by summarizing the critical contribution of SeMTs to the e-governance ecosystem.

Keywords: e-governance, State e-Mission Team (SeMT), National e-Governance Division (NeGD), Digital India, MeitY, Case Studies, Public Service Delivery, Digital Transformation, India, Policy Implementation, Challenges, Future of e-Governance.

I. INTRODUCTION

The advent of the digital age has presented unprecedented opportunities for governments worldwide to transform their operations and enhance citizen engagement. India, with its ambitious Digital India program, has placed significant emphasis on leveraging Information and Communication Technology (ICT) to improve governance, streamline public services, and foster inclusive development. A crucial element in realizing this vision at the sub-national level is the establishment and effective functioning of State e-Mission Teams (SeMTs). These specialized teams, supported and guided by the National e-Governance Division (NeGD) under the Ministry of Electronics and Information Technology (MeitY), serve as the primary drivers of e-governance initiatives within individual states. This journal aims to provide a comprehensive overview of the role of SeMTs in the Indian e-governance context, examining their structure, functions, impact, challenges, and future prospects. By analyzing the interplay between national policy frameworks and state-level implementation, this paper seeks to highlight the critical contribution of SeMTs in shaping a digitally empowered India.

II. UNDERSTANDING E-GOVERNANCE AND SEMT

A. Defining e-Governance

E-governance, in its broadest sense, refers to the application of ICT to transform the functions and structures of government, aiming to enhance efficiency, transparency, accountability, and citizen participation. It encompasses the use of digital platforms and technologies to deliver government services, exchange information, transact with citizens and businesses, and empower them through access to information. The core principles of e-governance include citizen-centricity, efficiency, accessibility, and effectiveness in the delivery of public services.

B. The Genesis and Mandate of State e-Mission Teams (SeMTs)

Recognizing the need for dedicated expertise and focused efforts at the state level to translate the national e-governance agenda into tangible outcomes, the Government of India conceptualized the establishment of State e-Mission Teams (SeMTs). These teams are envisioned as specialized units within the state government structure, tasked with providing strategic leadership and technical support for the planning, implementation, and monitoring of e-governance projects. The primary mandate of a SeMT typically includes:



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- Formulating and implementing the State e-Governance Strategy (SeGS) in alignment with the National e-Governance Plan (NeGP) and Digital India program.
- Providing technical assistance to various state government departments in identifying, developing, and deploying e-governance applications and services.
- Ensuring adherence to national e-governance standards, frameworks, and guidelines.
- Facilitating inter-departmental coordination and integration of services.
- Promoting capacity building and awareness about e-governance within the state government and among citizens.
- Attracting and managing IT expertise for e-governance initiatives.
- Monitoring the progress and impact of e-governance projects within the state.
- Acting as a central point of contact for all e-governance related matters within the state.

C. Structure and Composition of a Typical SeMT:

While the organizational structure and staffing may vary across states based on their specific needs and priorities, a typical SeMT comprises a multidisciplinary team of professionals with expertise in areas such as:

- State e-Mission Leader (SeML): A senior government official who heads the SeMT and provides overall strategic direction and leadership.
- IT Project Managers: Responsible for planning, executing, and monitoring e-governance projects.
- Software Architects and Developers: Providing technical expertise in application development, integration, and interoperability.
- Network and Infrastructure Specialists: Managing the state's IT infrastructure and ensuring its security and reliability.
- Information Security Experts: Developing and implementing security policies and procedures.
- Business Analysts: Analyzing existing government processes and identifying opportunities for digital transformation.
- Change Management and Capacity Building Specialists: Facilitating the adoption of new technologies and providing training to government personnel.
- Legal and Policy Advisors: Ensuring compliance with relevant legal and regulatory frameworks.
- Communication and Outreach Officers: Promoting awareness and adoption of e-governance services among citizens.

III. NEGD AND SEMT

A. The Role of the National e-Governance Division (NeGD):

The National e-Governance Division (NeGD), established by MeitY, serves as the apex body for supporting the Digital India program and driving e-governance initiatives across the country.NeGD plays a crucial role in:

- Formulating national policies, strategies, and frameworks for e-governance.
- Providing technical assistance and guidance to central and state government departments.
- Developing and promoting common e-governance infrastructure and platforms.
- Facilitating capacity building and knowledge sharing in the area of e-governance.
- Undertaking research and development in emerging technologies relevant to e-governance.
- Monitoring and evaluating the progress of e-governance projects at the national level.

B. Project undertaking by NeGD:

- DigiLocker: It is a digital locker service provided by the Ministry of Electronics & Information Technology (MeitY) under the Government of India's Digital India initiative. It aims at the 'Digital Empowerment' of citizens by providing them with access to authentic digital documents in a secure digital wallet.
- *a) Core Functionality*
- Digital Document Wallet: DigiLocker provides each citizen with a dedicated cloud-based storage space to store and access their important documents digitally.
- Issued Documents: It enables government departments, agencies, and other organizations to issue electronic versions of documents (like Aadhaar card, driving license, vehicle registration, mark sheets, etc.) directly into the user's DigiLocker account. These digitally issued documents are legally recognized as equivalent to the original physical documents.
- Uploaded Documents: Users can also upload scanned copies of their other documents into their DigiLocker account for easy access and organization.



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- Secure Document Gateway: DigiLocker acts as a secure platform for the exchange of documents between trusted issuers and requesters (with the user's consent). This eliminates the need for physical document submission and verification in many cases.
- Real-time Verification: It provides a mechanism for government agencies and other entities to verify the authenticity of digitally issued documents directly from the issuing agency with the user's permission.

b) Key Benefits

- Convenience: Access important documents anytime, anywhere through a computer or smartphone.
- Authenticity: Digitally issued documents are authentic and legally valid, reducing the risk of fraud and forgery.
- Security: Documents are stored securely in the cloud, eliminating the risk of loss, damage, or theft of physical documents.
- Paperless Governance: Promotes paperless transactions and reduces administrative overhead for government agencies.
- Faster Service Delivery: Simplifies and speeds up processes like government benefits, employment, financial inclusion, education, and healthcare by enabling quick and easy document sharing and verification.
- Reduced Verification Burden: Organizations can directly verify documents from the issuing agency, making the verification process faster and more efficient.
- Citizen Empowerment: Gives citizens control over their digital documents and allows them to share them securely with their consent.
- 2) UMANG: It is Unified Mobile Application for New-age Governance which is a unified platform launched by the Ministry of Electronics and Information Technology (MeitY), Government of India, to provide citizens with access to a wide range of government services (both Central and State) on a single mobile application.

Think of UMANG as a **digital gateway** to various government departments and services, aiming to make it easier and more convenient for citizens to interact with the government. Instead of downloading multiple apps for different services, users can access many of them through the UMANG app.

- a) Key Features and Objectives of UMANG:
- Single Platform Access: It integrates various government services such as healthcare, finance, education, agriculture, transport, utilities, and more, all into one mobile application.
- Wide Range of Services: Users can access services like:
 - Filing income tax returns.
 - o Checking EPF (Employees' Provident Fund) balance and raising claims.
 - o Booking gas cylinders.
 - Applying for a PAN card.
 - Making bill payments.
 - Accessing Aadhaar services.
 - Checking driving license details.
 - o Registering for various government schemes.
 - o And many more services from both central and state governments.
- Omni-channel Access: UMANG is designed to be accessible through multiple channels, including mobile app (Android, iOS), web portal, and even SMS.
- Secure and Integrated: It provides a secure platform for accessing government services, often leveraging existing digital infrastructure like Aadhaar for authentication.
- Citizen-Centric: The app is designed with a focus on user convenience and ease of access to government services.
- Digital India Initiative: UMANG is a key component of the Digital India program, aiming to promote digital empowerment and efficient delivery of government services.
- Multilingual Support: The app supports multiple Indian languages, making it accessible to a wider population.

b) Benefits of Using UMANG:

- Convenience: Access a multitude of government services from the comfort of your mobile phone or computer.
- Time-Saving: Avoid the need to visit multiple government offices or websites.



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- Easy to Use: The unified interface aims to provide a user-friendly experience.
- Single Point of Contact: Simplifies interaction with the government by providing a single platform.
- Promotes Digital Inclusion: Makes government services accessible to a wider population through mobile technology.
- 3) OpenForge: It is the Government of India's platform for open collaborative development of e-governance applications. It was launched by the Ministry of Electronics & Information Technology (MeitY) to promote the use of Free and Open Source Software (FOSS) and encourage the sharing and reuse of source code related to e-governance projects. Think of OpenForge as a GitHub or SourceForge specifically tailored for Indian e-governance initiatives. It provides a space for government departments, agencies, private organizations, developers, and citizens to collaborate on building and improving digital government services.
- a) Key Objectives of OpenForge
- Provide a platform for maintaining code repositories and version control for government-developed source code.
- Promote a culture of open collaborative application development between public and private entities, citizens, and institutions.
- Reduce development cycles and accelerate the rollout of e-governance applications in the country.
- Deliver e-governance services and solutions of higher quality and security through increased transparency and community peer review.
- Reduce e-governance project costs and the total cost of ownership through code reuse, remixing, and sharing.

b) How OpenForge Works

OpenForge supports two main collaboration models:

- Government to Community (G2C): Government or community members can create public projects. With the project administrator's approval, anyone can participate and contribute to the open collaborative source code development.
- Government to Government (G2G): Government agencies can create controlled projects with membership restricted to government entities. A specific case of G2G allows government departments to use OpenForge for internal, private development without external sharing.

c) Types of Projects on OpenForge

OpenForge is specifically focused on e-governance applications. This includes:

- Applications
- Frameworks
- Libraries
- SDKs (Software Development Kits)
- APIs (Application Programming Interfaces)
- Datasets
- Components
- Plugins

Projects without a clear connection to governance or civic areas are generally not allowed on the platform.

d) Benefits of OpenForge

- Transparency: Opening up source code allows for public scrutiny, potentially leading to more secure and reliable applications.
- Innovation: Collaboration with a wider community can foster innovation and the development of more effective solutions.
- Efficiency: Reusing existing code and collaborating can reduce development time and effort.
- Cost Reduction: Sharing and reusing code can significantly lower the costs associated with developing and maintaining egovernance applications.
- Interoperability: Encouraging the use of open standards and shared components can improve the interoperability of different government systems.
- Citizen Engagement: Provides an opportunity for citizens and developers to contribute to the development of public services.



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4) UX4G: It stands for User Experience Design for Government. It's a Digital India initiative by the Ministry of Electronics & Information Technology (MeitY), Government of India, aimed at enhancing the user experience of digital government services. Think of UX4G as a comprehensive framework and set of resources designed to help government departments and agencies create user-friendly, accessible, efficient, and engaging online services for citizens.

a) Key Aspects and Goals of UX4G

- User-Centric Design: At its core, UX4G emphasizes understanding and prioritizing the needs of the users (citizens) when designing digital government services. This involves user research, testing, and iterative design.
- Improved Usability: The primary goal is to make government websites and mobile applications easier to navigate, understand, and use for all citizens, regardless of their digital literacy or abilities.
- Accessibility: UX4G strongly promotes the creation of accessible digital services that comply with accessibility standards, ensuring that people with disabilities can also use them effectively.
- Efficiency: By focusing on user needs and streamlining workflows, UX4G aims to make government services more efficient for both citizens and government employees.
- Consistency: UX4G encourages a consistent look and feel across different government digital platforms, making it easier for citizens to recognize and interact with them.
- Design System: UX4G provides a design system, which is a digital library of ready-to-use components, templates, and guidelines. This helps designers and developers build consistent and user-friendly interfaces more efficiently, reducing duplication of effort.
- Resources and Tools: UX4G offers a range of resources, including design handbooks, guidelines, and potentially tools to aid in the UX design process for government applications.
- Capacity Building: UX4G also focuses on building the capacity of government departments in UX/UI design principles and practices through workshops and training programs.
- Collaboration: The platform encourages collaboration among designers and developers working on various government projects.

b) What UX4G Provides

- Design Handbook: A set of uniform guidelines that government websites and mobile applications should adhere to for consistent and user-friendly design.
- UX4G Design System: A library of reusable UI components and core features to simplify collaboration and accelerate development.
- UX Research and Audit: Guidance and potentially tools for conducting user research and evaluating the usability of existing government websites and applications.
- Capacity Building: Workshops and training to improve UX/UI skills within government departments.

c) Benefits of UX4G

- Enhanced Citizen Satisfaction: Easier and more pleasant interactions with government services lead to higher citizen satisfaction.
- Increased Adoption of Digital Services: User-friendly interfaces encourage more citizens to use online government services.
- Reduced Support Costs: Intuitive designs can decrease the need for citizen support and assistance.
- Improved Efficiency: Streamlined processes and clear navigation can make services more efficient for both users and government staff.
- Greater Accessibility: Ensures that digital services are available to a wider range of citizens, including those with disabilities.
- Stronger Trust and Transparency: Well-designed and accessible services can build trust and improve the perception of government digital initiatives.
- 5) API Setu: It is a key initiative under the Digital India program by the Ministry of Electronics & Information Technology (MeitY), Government of India.It serves as a unified platform or an API Marketplace cum Directory Portal designed to facilitate the discovery, access, and exchange of Application Programming Interfaces (APIs) among various government departments, agencies, and even private organizations and citizens. Think of API Setu as a central hub where different entities can publish



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their APIs (which allow different software systems to communicate with each other) and others can discover and utilize these APIs to build innovative services and solutions.

- a) Key Objectives of API Setu
- Facilitate Implementation of the Open API Policy: The Indian government has an Open API Policy to promote interoperability and data sharing across government systems. API Setu is a crucial tool for realizing this policy.
- Enable Seamless Service Delivery: By making government systems interoperable through APIs, API Setu aims to improve the efficiency and convenience of delivering public services.
- Promote an "API-First" Approach: It encourages government departments to design their systems with APIs in mind, making data and functionalities easily accessible to other authorized entities.
- Foster Innovation: By providing a platform for data and service sharing, API Setu aims to stimulate the creation of new and innovative applications and services by government, businesses, and citizens.
- Ensure Secure and Reliable Information Sharing: The platform aims to provide a secure and governed environment for the exchange of data and services through APIs.
- Reduce Redundancy and Costs: By promoting the reuse of existing APIs, API Setu can help avoid the duplication of development efforts and reduce overall costs.
- Improve Transparency and Citizen Participation: Making government data and services accessible through APIs can lead to greater transparency and enable citizen participation in building solutions.

b) Key Features and Functionality of API Setu

- API Discovery: Provides a catalog or directory where developers and organizations can easily search and discover relevant APIs offered by various government entities.
- API Publishing: Allows government departments and agencies to publish their APIs with proper documentation and specifications.
- Secure Access and Governance: Implements mechanisms for secure access to APIs, including authentication and authorization. It also establishes a governance framework for API usage and management.
- Standardization: Encourages the adoption of common data standards and API design principles to ensure interoperability.
- Developer Resources: May provide resources, documentation, and tools to help developers understand and integrate with the available APIs.
- Monitoring and Analytics: Could offer features for monitoring API usage and performance.

c) Benefits of API Setu

- For Government Organizations (API Publishers):
 - o Standardized Access: Provides a common interface for accessing their data and services.
 - o Controlled Access: Allows them to manage and monitor who can access their APIs.
 - o Secure Sharing: Enables safe and reliable sharing of information across different applications.
 - o Reduced Integration Costs: Simplifies integration with other systems through well-defined APIs.
- For Developers and Organizations (API Consumers):
 - Easy Discovery: Provides a single platform to find relevant government APIs.
 - Faster Integration: Simplifies and speeds up the process of integrating with government services.
 - Innovation Opportunities: Enables the development of new and innovative applications by leveraging government data and services.
- For Citizens:
 - o Improved Service Delivery: Leads to more integrated and efficient government services.
 - o Greater Convenience: Can result in more user-friendly and accessible digital services.
 - Potential for New Citizen-Centric Applications: Opens up possibilities for third-party developers to create applications that benefit citizens.



6) myScheme: It is a National Platform developed by the Government of India to serve as a one-stop search and discovery portal for various government schemes. It aims to simplify the process for citizens to find and understand the government schemes they might be eligible for.

Breakdown of what myScheme offers are given below:

- *a) Core Functionality*
- Scheme Discovery: myScheme allows users to discover relevant government schemes based on their eligibility criteria. Users can input their demographic, income, social details, and other relevant information to find schemes tailored to their profile.
- Central and State Schemes: The platform aggregates information on schemes from both the Central Government and various State/Union Territory governments.
- Categorized Information: Schemes are organized into logical categories (e.g., Agriculture, Education, Health, Social Welfare, etc.) to facilitate easier browsing.
- Detailed Scheme Information: For each scheme, myScheme provides details such as eligibility criteria, application process, benefits offered, FAQs, and links to the official application page.
- Eligibility Check: The platform offers a feature to check your potential eligibility for various schemes based on the information you provide.
- Application Guidance: While currently it primarily directs users to the official application page of the respective scheme, the long-term vision includes the possibility of applying for schemes directly through the platform.

b) Key Benefits of myScheme

- Simplified Search: Reduces the time and effort citizens spend searching for relevant government schemes across multiple websites.
- Personalized Results: Helps users identify schemes they are likely eligible for, making the process more efficient.
- Comprehensive Information: Provides all essential details about a scheme in one place, making it easier to understand.
- Increased Awareness: Helps citizens become aware of the various government schemes available to them.
- Empowerment: Enables citizens to make informed decisions about availing government benefits.
- Reduced Information Asymmetry: Bridges the gap between the availability of schemes and citizens' knowledge about them.

c) How myScheme Works (as of the current information)

- User Input: You enter your relevant attributes such as demographics, income, social details, etc.
- Scheme Matching: mySchemeanalyzes your input and matches it against the eligibility criteria of numerous government schemes.
- Eligible Schemes Displayed: You are presented with a list of government schemes for which you are likely eligible.
- Detailed Information: You can select a scheme from the list to view detailed information about it, including eligibility, benefits, application process, and FAQs.
- Application Link: You are directed to the official website or application portal of the selected scheme to proceed with the application.
- 7) MeriPehchaan: It is also known as the National Single Sign-On (NSSO), is a user authentication service developed by the Ministry of Electronics & Information Technology (MeitY), Government of India, under the Digital India initiative. It acts as a centralized authentication platform that allows users to access multiple online applications and services offered by various government departments and agencies (both central and state) using a single set of credentials.

Think of it as a way to log in once and then seamlessly access various government websites and apps without having to repeatedly enter your username and password for each one.

- a) Key Features and Benefits of MeriPehchaan
- Single Sign-On (SSO): Users only need to authenticate themselves once to access multiple integrated government services. This eliminates the need to remember numerous usernames and passwords.
- Convenience and Ease of Use: Simplifies the user experience by providing a seamless and hassle-free way to interact with digital government services.



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- Enhanced Security: Strengthens password policies and reduces the risk of data breaches associated with managing multiple credentials. It also helps users identify genuine government applications, reducing the risk of falling for fake ones.
- Centralized Access Control: Provides a unified platform for managing user authentication and access to various services.
- Reduced IT Workload: Saves time, effort, and cost for government departments by eliminating the need to build and maintain independent authentication systems for each service.
- "Know Your User" (KYC): With user consent, MeriPehchaan can provide verified user information to different government services, streamlining processes that require identity verification.
- Standardized Registration: Users only need to go through a single registration process to access a wide range of services.
- Multi-factor Authentication: Offers options for enhanced security through multi-factor authentication methods.
- Integration of Existing Platforms: MeriPehchaan is a collaboration of three existing major Single Sign-On (SSO) platforms: Jan Parichay, e-Pramaan, and DigiLocker.
- Multiple Authentication Parameters: Authenticates users based on various parameters like username, mobile number, Aadhaar, PAN, etc.
- b) How MeriPehchaan Works
- Registration: Users register on the MeriPehchaan platform (or through one of its integrated platforms like DigiLocker) by providing basic details and creating their credentials.
- Accessing a Service: When a user tries to access a government service integrated with MeriPehchaan, they are redirected to the MeriPehchaan login page.
- Authentication: The user enters their MeriPehchaan credentials (username/mobile number/Aadhaar etc. and password/OTP).
- Authorization: Once the user is successfully authenticated by MeriPehchaan, the platform verifies their identity and securely passes a token or confirmation to the requested government service.
- Seamless Access: The user is then logged into the government service without needing to enter their credentials again.
- 8) EntityLocker: It is a new service, launched as an extension of DigiLocker, by the Ministry of Electronics & Information Technology (MeitY), Government of India. While DigiLocker primarily caters to individual citizens for storing and accessing their personal documents, EntityLocker is designed specifically for organizations and businesses.

Think of EntityLocker as DigiLocker for the enterprise. It provides a secure, cloud-based platform for various entities to store, share, and verify their official digital documents and certificates.

- a) Key Features and Benefits of EntityLocker
- For Organizations (Corporates, MSMEs, Trusts, Societies, etc.):
 - Centralized Document Management: Provides a single, secure repository for storing critical entity-related documents like registration certificates, tax returns, insurance documents, bank statements, audit reports, board meeting resolutions, etc.
 - o Secure Cloud Storage: Offers 10 GB of encrypted cloud storage for managing organizational documents.
 - Real-time Document Access: Enables authorized users within the organization to access necessary documents anytime, anywhere.
 - Seamless Integration with Government Systems: Connects with platforms like the Ministry of Corporate Affairs (MCA), GSTN, and DGFT for real-time document access and verification.
 - Simplified Compliance: Facilitates easier adherence to regulations and reporting requirements by providing quick access to necessary documents.
 - Efficient Document Sharing: Allows secure sharing of documents with partners, stakeholders, and government agencies with consent-based mechanisms.
 - Enhanced Security and Accountability: Offers Aadhaar-authenticated role-based access management and tracks document-related activities.
 - o Legally Valid Digital Signatures (eSign): Supports digital signatures for authenticating uploaded documents.
 - Enterprise Vault: A special feature allowing organizations to securely upload and manage additional internal documents with restricted access control.



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- Cost and Time Savings: Reduces administrative overhead, minimizes document processing times, and eliminates the need for physical document handling.
- Paperless Governance: Promotes a shift towards paperless operations for businesses.
- For Individuals (within an organization):
 - Authorized Access: Designated representatives (e.g., company directors, proprietors) can create the EntityLocker account and grant access/delegate document management to other authorized users within the organization.
 - Linkage with Personal DigiLocker: Individuals can link their personal DigiLocker accounts to their organization's EntityLocker account for easier access and management of relevant documents in one place.
- b) How EntityLocker Works
- Entity Authentication and Verification: An authorized representative of the entity (e.g., Director for a company, Proprietor for an MSME) signs up for an EntityLocker account. The system verifies the entity's details using information from sources like MCA21 (for companies) or the Udyam registry (for MSMEs).
- Document Access: Once authenticated, the primary user can access entity-related documents fetched directly from government databases.
- Enterprise Vault: The organization can utilize the "Enterprise Vault" to upload and securely store other important documents.
- User Management: The primary user can grant and manage access for other authorized individuals within the organization to view and manage documents.
- Document Sharing: Documents can be securely shared with other authorized entities with proper consent mechanisms.
- Verification: Other organizations can verify the authenticity of digitally shared documents.
- 9) India Stack Local: It is a specific initiative and a platform that focuses on showcasing and promoting the digital solutions and successes implemented by various States and Union Territories within India, including Punjab.

Think of it as a catalog or a marketplace of localized digital innovations built leveraging the core components of the India Stack or other digital technologies. The goal is to:

- Highlight State-Specific Digital Achievements: To showcase the unique digital initiatives undertaken by individual states like Punjab to improve governance, deliver services, and empower citizens.
- Facilitate Sharing and Replication: To enable states to learn from each other's successful digital solutions and potentially replicate or adapt them for their own use.
- Promote Interoperability: By understanding the technology stacks and architectures used by different states, it can foster greater interoperability between state and national-level digital systems.
- Inspire National-Level Adoption: Successful local solutions can serve as models for potential nationwide implementation.
- Empower Citizens at the Local Level: By making citizens aware of the digital services available in their specific state, it encourages adoption and utilization.
- a) Key Aspects of India Stack Local:
- Showcasing Solutions: The India Stack Local platform (indiastacklocal.in) displays various digital solutions categorized by:
 - Government Internal Functioning: Solutions aimed at improving the efficiency and effectiveness of government operations within the state.
 - o Beneficiary Oriented (State & Central): Digital services directly benefiting citizens within the state.
 - o Certifications and Permissions: Online systems for issuing and managing local permits and certifications.
 - Project Management Solutions: Digital tools for managing state-level projects.
 - Other: A diverse range of other digital initiatives.
- Information Provided: For each showcased solution, the platform often provides details such as:
 - Description of the solution.
 - o Impact and benefits.
 - o Technology stack used.
 - o Architecture.
 - o Implementation methodology.



• Focus on States and UTs: The platform is specifically organized by state and union territory, making it easy to find digital initiatives relevant to a particular region like Punjab.

10) Technology Used in the Projects

The code snippet showcases a webpage built with WordPress, leveraging HTML for structure, CSS (including multiple frameworks and libraries) for styling, and JavaScript (including jQuery and various plugins/libraries) for interactivity and enhanced features like sliders, popups, and language switching. It also utilizes PHP on the server-side for dynamic content generation and incorporates SEO techniques through Yoast SEO and JSON-LD.

Database like MySQL, SQL Server, PostgreSQL, Oracle, MongoDB etc. are being used on the server-side to store and manage the website's data.

C. The Synergistic Relationship between NeGD and SeMTs:

SeMTs operate as the extended arms of NeGD at the state level, translating the national vision and guidelines into state-specific action plans and projects. The relationship between NeGD and SeMTs is characterized by:

- Guidance and Support:NeGD provides policy directives, technical frameworks, and best practices that guide the functioning of SeMTs.
- Capacity Building Initiatives:NeGD organizes training programs and workshops for SeMT members to enhance their skills and knowledge.
- Knowledge Sharing Platforms:NeGD facilitates the exchange of information and experiences among SeMTs from different states.
- Financial Assistance: In some cases, NeGD may provide financial support for the establishment and operation of SeMTs and for specific e-governance projects.
- Monitoring and Evaluation:NeGD monitors the progress of e-governance initiatives undertaken by states with the support of SeMTs.
- Standardization and Interoperability:NeGD promotes the adoption of common standards and frameworks to ensure interoperability of e-governance applications developed by different states, often working through the SeMTs to achieve this.

In essence, NeGD sets the broad direction and provides the necessary support ecosystem, while SeMTs are responsible for contextualizing and implementing e-governance initiatives within their respective state's unique socio-economic and administrative landscape.

D. SWOT analysis of the NeGD and SeMT

To conduct a comprehensive SWOT analysis, one would need in-depth information about their internal workings, resources, capabilities, and the external environment they operate in.

However, based on the general understanding of their roles and the context of e-governance in India, we can outline a potential framework with possible points for each category. This is a general perspective and might not reflect the specific realities of every NeGD and SeMT.

Potential SWOT Analysis Framework for NeGD and SeMTs are:

- 1) Strengths
- Mandate and Focus: Clear mandate to drive and support e-governance initiatives at national and state levels respectively.
- Expertise and Knowledge: Likely pool of experts in technology, project management, and e-governance domains.
- National/State Level Coordination:NeGD acts as a central agency, while SeMTs are key for state-specific implementation, enabling coordination.
- Policy and Framework Development: Involved in creating guidelines, standards, and frameworks for e-governance projects.
- Capacity Building Initiatives: Mandated to undertake training and capacity building for government officials on e-governance.
- Infrastructure Development Support: Play a role in establishing and promoting key infrastructure like data centers and networks.
- Program Management: Oversee and manage the implementation of various Mission Mode Projects (MMPs) under the Digital India program.



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- 2) Weaknesses
- Implementation Challenges: E-governance projects often face delays, cost overruns, and integration issues.
- Inter-departmental Coordination: Challenges in ensuring seamless coordination and data sharing across various government departments.
- Technical Expertise Gaps: Potential lack of specialized skills in emerging technologies.
- Change Management Resistance: Resistance to adoption of new technologies and processes within government.
- Sustainability of Projects: Ensuring long-term sustainability and maintenance of e-governance infrastructure and applications.
- Digital Literacy and Access: Dependence on digital literacy levels and internet access among citizens.
- Funding and Resource Constraints: Potential limitations in financial and human resources.
- Standardization and Interoperability: Challenges in ensuring adherence to standards and interoperability across different platforms and systems.

3) Opportunities

- Digital India Initiative: Strong national push and investment in digital transformation provides a significant opportunity.
- Emerging Technologies: Leveraging advancements in AI, cloud computing, blockchain, and IoT for better service delivery.
- Public-Private Partnerships (PPPs): Collaborating with the private sector for technology development and service delivery.
- Citizen Engagement: Utilizing digital platforms for enhanced citizen participation and feedback.
- Data-Driven Governance: Using data analytics for informed decision-making and policy formulation.
- Mobile Governance (m-Governance): Expanding service delivery through mobile platforms for wider reach.
- Focus on Service Delivery: Improving efficiency, transparency, and accessibility of government services.

4) Threats

- Cybersecurity Risks: Increasing threats to data security and privacy in the digital realm.
- Data Privacy Concerns: Ensuring compliance with data protection laws and addressing citizen concerns about privacy.
- Technological Obsolescence: Rapid pace of technological change requiring continuous adaptation and upgrades.
- Lack of Skilled Manpower: Shortage of skilled professionals in niche technology areas.
- Resistance from Vested Interests: Potential resistance to transparency and efficiency brought by e-governance.
- Scalability Issues: Challenges in scaling up successful pilot projects to a national or state-wide level.
- Political and Bureaucratic Hurdles: Changes in government priorities and bureaucratic processes can impact project continuity.

IV. RESEARCH METHODOLOGY

Research methodology in studying the 'Catalyzing e-Governance in India: The Impact of NeGD&SeMT' involves a comprehensive analysis of secondary data sources. Secondary data sources include government reports, academic studies, and industry publications that offer valuable insights into the progress and challenges faced in implementing e-governance initiatives. By utilizing secondary data, researchers can gain a deeper understanding of the effectiveness of various programs, policies, and technologies aimed at promoting digital governance in India. This research methodology allows for a detailed examination of key trends, patterns, and outcomes related to e-governance initiatives, providing a solid foundation for evidence-based decision-making and policy formation. Through rigorous analysis and interpretation of secondary data, researchers can assess the impact of e-governance initiatives on improving public service delivery, enhancing transparency and accountability, fostering citizen engagement, and driving economic development in India.

V. CASE STUDIES IN E-GOVERNANCE IMPLEMENTATION WITH SEMT INVOLVEMENT

The impact of SeMTs can be best understood through examining specific e-governance projects where they have played a significant role. While numerous successful initiatives exist across the country, the following illustrative examples highlight the diverse areas where SeMTs have contributed:

 Land Records Modernization: Several states, with the active involvement of their SeMTs, have successfully digitized and modernized their land records. This includes the development of online portals for accessing land ownership details, mutation records, and cadastral maps. For instance, the Bhoomi project in Karnataka, where the SeMT played a crucial role in technical



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implementation and capacity building, has significantly improved transparency and reduced instances of land disputes. Citizens can now access land records online, reducing the need for physical visits to government offices and minimizing delays.

- 2) Online Citizen Services Portals: Many states have developed comprehensive online portals offering a wide range of government services, such as application for certificates (birth, death, domicile), payment of utility bills, and filing of grievances. SeMTs are instrumental in designing, developing, and maintaining these portals, ensuring their user-friendliness, security, and scalability. The e-District project, implemented in various states with SeMT support, aims to provide integrated and seamless access to government services at the district level.
- 3) Transport Department Digitization:SeMTs have assisted Transport Departments in digitizing various processes, including online registration of vehicles, issuance of driving licenses, and payment of road taxes. This has led to greater efficiency, reduced queues at transport offices, and improved transparency in regulatory processes. The Vahan and Sarathi projects, national initiatives implemented at the state level with SeMT coordination, are prime examples of this transformation.
- 4) Social Welfare Scheme Delivery:SeMTs have played a vital role in leveraging technology for the efficient and transparent delivery of benefits under various social welfare schemes. This includes the use of Direct Benefit Transfer (DBT) through online platforms, Aadhaar-based authentication of beneficiaries, and online tracking of benefit disbursement. States have utilized their SeMTs to develop customized portals and mobile applications for managing and monitoring these schemes, ensuring that benefits reach the intended beneficiaries directly and minimizing leakages.
- 5) e-Procurement Systems: To enhance transparency and efficiency in government procurement, SeMTs have assisted state governments in implementing e-procurement platforms. These systems facilitate online tender publishing, bid submission, and evaluation, leading to greater competition and reduced opportunities for corruption. Several states have successfully adopted e-procurement with technical support and guidance from their respective SeMTs.

These case studies demonstrate the diverse ways in which SeMTs contribute to the e-governance landscape in India, acting as the technical backbone and project management expertise for a wide range of citizen-centric and government-facing digital initiatives.

VI. CHALLENGES FACED BY NEGD AND SEMT

A. Challenges Faced by NeGD

Some of the challenges faced by the National e-Governance Division (NeGD) include:

- 1) Outdated Website Design: The current NeGD website has an outdated design, difficult navigation, unattractive visual design, and a lack of user-centric design, leading to a poor user experience and accessibility issues.
- 2) Cybersecurity Threats: With the increasing use of digital technology, NeGD faces the challenge of safeguarding critical government IT infrastructure against growing cybersecurity threats. This includes the need for robust cybersecurity strategies and implementation.
- *3)* Data Management: As more IT tools are adopted, a large amount of data is generated. NeGD faces the challenge of effective data mining, data extraction with proper metadata, and efficient data storage.
- 4) Coordination and Integration: Ensuring seamless coordination and integration across various government departments for egovernance projects remains a significant challenge. This is crucial for the scalability and efficiency of projects.
- 5) Technical Expertise: Keeping pace with rapid technological advancements and ensuring the availability of skilled professionals in emerging technologies is an ongoing challenge.
- 6) Change Management: Overcoming resistance to the adoption of new technologies and processes within government departments can hinder the progress of e-governance initiatives.
- 7) Scalability of Projects: Successfully scaling up pilot e-governance projects to a national level can be difficult due to various factors including infrastructure limitations and diverse regional needs.
- 8) Ensuring Interoperability: Achieving interoperability and standardization across different digital systems and platforms used by various government entities is a complex challenge.

B. Challenges Faced by SeMT

The several challenges encountered by State e-Governance Mission Teams (SeMTs) are:

1) Data Integration: Coordinating with multiple government departments to ensure consistent data flow through APIs can be a continuous effort, with instances of APIs failing to send data, affecting the reliability of systems.



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- 2) Resistance and Lack of Respect: In some instances, particularly for women in leadership roles within SeMTs, there can be resistance and a lack of respect from field staff and local populations, questioning their authority and capabilities based on gender.
- *3)* Coordination with Multiple Stakeholders: E-governance projects often require extensive coordination with various departments (e.g., electrical authorities, local government, police), which can be complex and time-consuming.
- 4) Data Management and Storage: Similar to NeGD, SeMTs also face challenges related to managing and storing the increasing volumes of data generated through the use of IT tools in governance.
- 5) Capacity Building within State Departments: SeMTs need to continuously work on capacity building within state departments to equip personnel with the necessary skills to manage and implement e-governance initiatives effectively. This includes identifying training needs and developing relevant programs.
- 6) Ensuring Alignment with National Objectives: SeMTs need to ensure that the e-governance projects implemented at the state level are aligned with the overall objectives and standards of the Digital India program.
- 7) Change Management at the State Level: Facilitating the adoption of new digital processes and overcoming resistance to change within state government departments is a key challenge for SeMTs.
- 8) Technical Expertise and Support: Providing technical guidance and support to various state government departments for their egovernance projects requires a strong team with diverse technical skills.
- 9) Program Management and Monitoring: Effectively monitoring the implementation of various e-governance projects at the state level and ensuring their timely completion and alignment with objectives is a significant responsibility of SeMTs.
- 10) Developing Procurement Strategies: SeMTs often need to assist state departments in preparing RFPs and developing appropriate procurement models for technology and services related to e-governance projects.

VII. FUTURE DIRECTIONS FOR NEGD AND SEMT

A. Future of NeGD

The National e-Governance Division (NeGD) is poised to play an increasingly crucial role in shaping the digital landscape of India. Its future trajectory appears to be focused on:

- 1) Driving Digital Transformation:NeGD will continue to be the key driver for the Digital India program, supporting various ministries and departments in their e-governance initiatives at both central and state levels. This includes providing strategic direction, policy frameworks, and technical assistance.
- 2) Focus on Emerging Technologies:NeGD will likely intensify its efforts in exploring and implementing emerging technologies like AI, Blockchain, GIS, IoT, Big Data, and others to enhance governance and service delivery. This includes developing strategies, building capabilities within government, and potentially piloting innovative solutions. For instance, NeGD is already involved in the National AI Portal and exploring AI for youth.
- 3) Developing and Managing National Digital Platforms:NeGD will continue to develop, manage, and scale key national digital platforms such as DigiLocker, UMANG, API Setu, Poshan Tracker, Academic Bank of Credits, and others. These platforms are crucial for providing digital infrastructure and services to citizens.
- 4) Enhancing User Experience: Recognizing the challenges with outdated website designs, a future focus will likely be on improving the user experience and accessibility of government digital platforms, ensuring citizen-centric design principles are followed. The "Ask Our Experts" live series focusing on DigiLocker is an example of NeGD's efforts to directly engage with citizens and address their queries, potentially leading to better user understanding and adoption.
- 5) Strengthening Cybersecurity: With the growing digital footprint, NeGD will likely prioritize strengthening cybersecurity measures for government IT infrastructure and e-governance services to protect against evolving cyber threats. This includes capacity building in cyber security for government officials.
- *6)* Promoting Data-Driven Governance:NeGD will likely focus on enabling effective data management, extraction, and analysis to support informed decision-making and policy formulation across government departments.
- 7) Facilitating Digital Diplomacy:NeGD is also playing a role in extending India's digital public infrastructure (like India Stack) to other countries, showcasing Indian startups and products on a global stage. This indicates a future role in international collaborations in the e-governance domain.
- 8) Capacity Building: A continuous focus will be on building the capacity of government officials at all levels to effectively utilize digital tools and manage e-governance projects. Initiatives like iGOT (Integrated Government Online Training) are likely to be further strengthened.



9) Connected Infrastructure:NeGD is working on projects like connected roads, indicating a future where digital technology is integrated with physical infrastructure for better governance and services.

B. Future of SeMTs

State e-Governance Mission Teams (SeMTs) are crucial for the on-ground implementation of e-governance initiatives at the state level. Their future will likely involve:

- 1) Decentralized Ownership: With the increasing devolution of funds to states, SeMTs will likely take on greater ownership and responsibility for developing and sustaining their state-specific e-governance support systems.
- 2) Alignment with Digital India Vision:SeMTs will continue to ensure that state-level e-governance projects align with the overall objectives and standards of the national Digital India program.
- *3)* Focus on Citizen-Centric Service Delivery: The core focus will remain on leveraging technology to improve the efficiency, transparency, and accessibility of government services for citizens at the state level.
- 4) Enhanced Coordination and Collaboration:SeMTs will need to further strengthen coordination with various state government departments and also collaborate effectively with NeGD and other national agencies. Ensuring data flow through APIs and addressing integration challenges will be critical.
- 5) Capacity Building at the State Level: A significant ongoing role will be to drive capacity building initiatives within state government departments to ensure effective implementation and management of e-governance projects. This includes identifying training needs and facilitating relevant programs.
- 6) Adoption of Emerging Technologies at the State Level:SeMTs will play a key role in assisting state departments in understanding and adopting new technologies relevant to their specific needs and challenges.
- 7) Project Management and Monitoring: Effective program management, monitoring, and evaluation of state-level e-governance projects will remain a core function of SeMTs.
- 8) Developing State-Specific Digital Platforms: While aligning with national platforms, SeMTs may also be involved in developing and managing state-specific digital service delivery platforms.
- 9) Addressing Unique State Challenges:SeMTs will need to address the unique challenges and requirements of their respective states, considering factors like digital literacy, infrastructure availability, and regional disparities. Initiatives promoting digital literacy at the grassroots level will be crucial.
- 10) Promoting Women in Leadership: Efforts to promote women in leadership roles within SeMTs and the broader e-governance ecosystem at the state level are likely to continue, addressing gender stereotypes and fostering inclusive work environments.

In essence, both NeGD and SeMTs are integral to the future of e-governance in India. NeGD will continue to provide the overarching strategic direction, develop national platforms, and promote the adoption of new technologies, while SeMTs will be crucial for translating these national initiatives into tangible outcomes at the state level, ensuring effective service delivery to citizens across the country. Their roles are interconnected and complementary in realizing the vision of a digitally empowered India.

VIII. CONCLUSION

State e-Mission Teams, operating under the guidance of NeGD, form a critical pillar of the e-governance ecosystem in India. They serve as the essential link between national policy objectives and state-level implementation, driving the digital transformation of government services and enhancing citizen engagement. Through their diverse functions, ranging from strategic planning and technical support to project management and capacity building, SeMTs have played a significant role in the successful rollout of numerous e-governance initiatives across the country. While facing challenges related to talent, resources, coordination, and technology adoption, the future of SeMTs holds immense potential. By embracing emerging technologies, strengthening capacity building, prioritizing citizen-centricity, and fostering collaboration, SeMTs can continue to be the key catalysts in realizing the vision of a digitally empowered and efficiently governed India. Their sustained focus and strategic evolution are crucial for deepening the impact of e-governance and ensuring that the benefits of digital transformation reach all sections of society.

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