

NATIONAL TRANSFORMATION

Evolution of E-Governance in India

From In-house Computerization to World-Leading Digital Public Infrastructure

What is E-Governance?

Core Concept

The application of Information & Communication Technology (ICT) to deliver government services, exchange information, and integrate standalone systems between government-to-citizen (G2C), government-to-business (G2B), and government-to-government (G2G).

SMART Governance Paradigm

Simple: Simplified rules & procedures via automation.

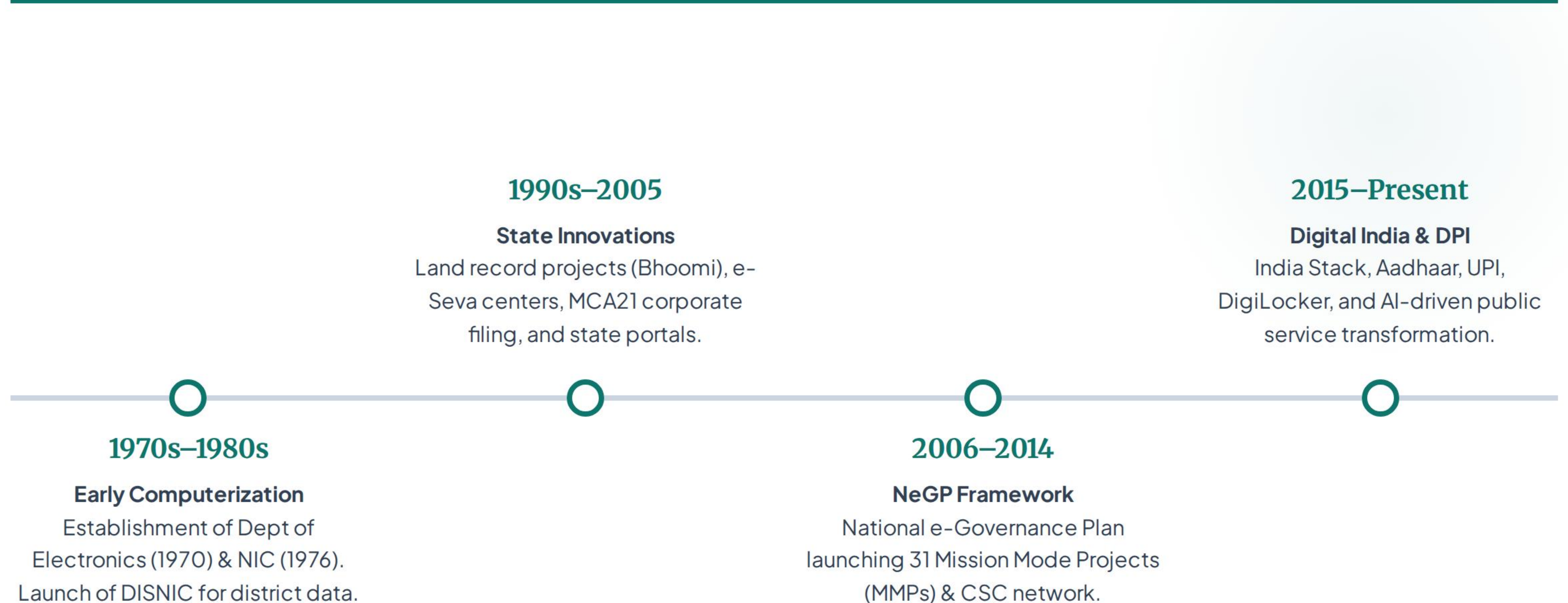
Moral: Eliminating human discretion to reduce corruption.

Accountable: Transparent digital paper trails.

Responsive: Real-time service delivery and tracking.

Transparent: Public access to government data.

Historical Evolution Timeline



Pioneering State-Level Projects



Bhoomi (Karnataka)

Digitized 20 million agricultural land records, replacing corrupt manual record keepers with instant digital kiosks.



e-Seva (Andhra Pradesh)

One-stop integrated digital counters for utility bill payments, certificates, and government licenses.



Gyandoot (Madhya Pradesh)

Intranet-based rural cyber-kiosks bringing grain prices, land records, and grievance registration to village doorsteps.

National e-Governance Plan (2006)

 **31 Mission Mode Projects (MMPs):** Focused on specific domains spanning Central (Passport, Income Tax, MCA21), State (Land Records, Commercial Taxes, Agriculture), and Integrated services (e-Courts, EDI, e-Biz).

 **State Wide Area Networks (SWAN):** High-speed telecommunication connectivity linking state headquarters down to block/tehsil levels.

 **State Data Centres (SDC):** Consolidated core infrastructure hosting state applications and databases securely.

 **Common Service Centres (CSCs):** Front-end physical delivery points bringing e-services to rural areas across India.

Digital India Mission (2015)

A Quantum Leap in Governance

Launched in 2015, Digital India transformed e-governance into a comprehensive national movement centered on three key vision areas:

1. **Infrastructure as a Utility** to every citizen.
2. **Governance & Services on Demand** in real time via digital and mobile platforms.
3. **Digital Empowerment of Citizens** through universal digital literacy and accessible resources.



The India Stack Revolution

World-Leading Digital Infrastructure

India Stack is a set of open APIs and digital public goods that revolutionized identity, payments, and data management:

Presence-less Layer: Aadhaar universal biometric identity.

Paper-less Layer: DigiLocker & eSign for instant verification.

Cash-less Layer: Unified Payments Interface (UPI).

Consent Layer: Account Aggregator framework.



Digital Scale & Economic Impact



Direct Benefit Transfer (DBT) via Aadhaar-linked bank accounts has eliminated millions of ghost beneficiaries, saving over ₹2.7 Lakh Crore (\$33B+) from leakages.

Challenges & Bottlenecks

Navigating Barriers to Maturity

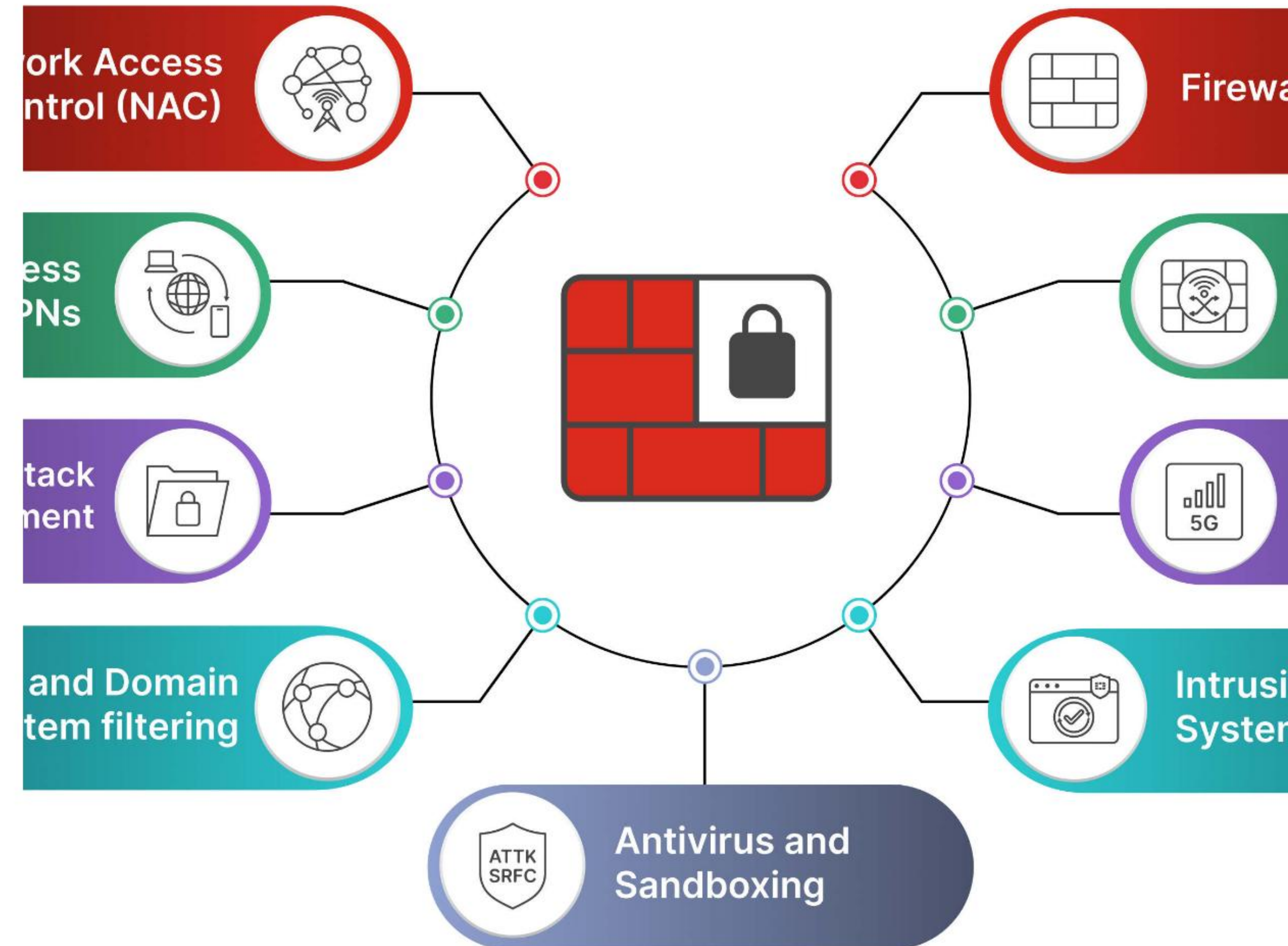
Digital Divide: Rural-urban internet speed gap and gender disparities in digital access.

Cybersecurity & Privacy: Protecting massive critical information infrastructure against data breaches.

Digital Literacy: Equipping non-tech-savvy populations with secure usage skills.

Interoperability: Integrating legacy state databases into unified central architectures.

Network Security?



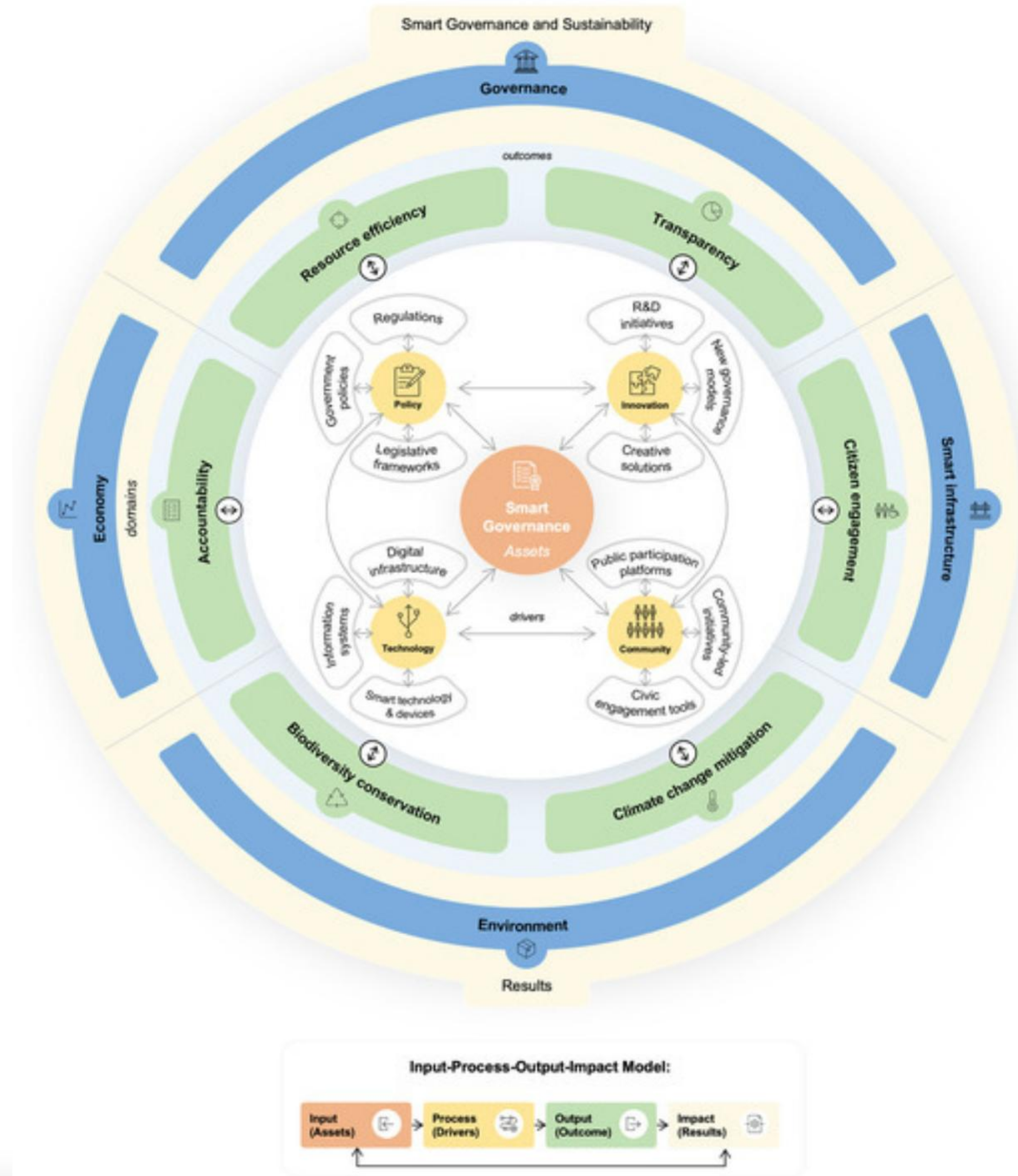
The Next Frontier: AI & DPI 2.0

Shaping Next-Gen Smart Governance

Bhashini AI: Breaking language barriers through real-time AI translation in 22 official Indian languages.

AgriStack & NDHM: Extending digital public infrastructure into agriculture and universal healthcare.

Predictive Governance: AI-enabled automated service delivery before citizens even apply.



Questions & Discussion

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Image Sources



<https://cdn.digitalindiacorporation.in/wp-content/uploads/2024/10/People-taking-part-in-political-event-flat-vector-illustration-scaled-1.jpg>

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