



International Journal of Contemporary Research In Multidisciplinary

Research Article

India 2047: A Transdisciplinary Framework for Inclusive Development, Technological Sovereignty, And Equitable Growth

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DOI: <https://doi.org/10.5281/zenodo.18545823>

Abstract

This research paper critically examines the strategic pathways and policy frameworks essential for achieving the "Viksit Bharat 2047" (Developed India 2047) vision. Moving beyond purely economic metrics, the paper posits that genuine "Viksit" status necessitates a synergistic triad of Progress (sustained, high-quality growth), Innovation (indigenous technological sovereignty and diffusion), and Equity (social, economic, and spatial justice). The analysis identifies three foundational pillars: Human Capital Augmentation (health, education, and skilling), Techno-Industrial Transformation (leveraging AI, green tech, and advanced manufacturing), and Institutional-Ecological Resilience (governance reform, climate action, and social security). A central thesis is that these pillars must be interwoven; for instance, innovation must be directed towards solving India-specific challenges in agriculture, healthcare, and resource management to be truly equitable. The paper employs a transdisciplinary methodology, integrating economic modelling, foresight analysis, and sociological assessment to evaluate current initiatives like Production-Linked Incentive (PLI) schemes, the National Education Policy (NEP) 2020, and digital public infrastructure (DPI). It highlights critical tension points, such as balancing rapid urbanisation with agrarian sustainability, managing the demographic dividend amid jobless growth risks, and ensuring that the digital revolution does not exacerbate existing divides. The conclusion proposes a normative framework for "Inclusive National Innovation Systems" and "Distributive Infrastructure," arguing that the 2047 goal is not merely a terminal target but a catalyst for building a resilient, knowledge-based, and compassionate society where growth is a means to enhanced human capabilities and collective well-being, not an end in itself.

Manuscript Information

- ISSN No: 2583-7397
- Received: 02-01-2026
- Accepted: 26-01-2026
- Published: 09-02-2026
- IJCRM:5(1); 2026: 547-550
- ©2026, All Rights Reserved
- Plagiarism Checked: Yes
- Peer Review Process: Yes

How to Cite this Article

Jirnal A N, Basargi P N. India 2047: A transdisciplinary framework for inclusive development, technological sovereignty, and equitable growth. Int J Contemp Res Multidiscip. 2026;5(1):547-550.

Access this Article Online



www.multiarticlesjournal.com

KEYWORDS: Viksit Bharat 2047, Inclusive Innovation, Technological Sovereignty, Equitable Development, Human Capital.

1. INTRODUCTION

Viksit Bharat 2047 is a comprehensive, transdisciplinary vision aiming to transform India into a developed, self-reliant nation by its 100th independence anniversary. It focuses on sustainable, inclusive growth, technological sovereignty, and advanced infrastructure to bridge equity gaps and foster a \$23–\$35 trillion economy. Key pillars include digital empowerment, education reform, and women-led development. The "Viksit Bharat 2047" vision, articulated as a centennial goal for post-independence India, represents an ambitious national aspiration to ascend to the status of a developed nation. However, in a world grappling with climate crises, technological disruption, widening inequalities, and geopolitical instability, the classical 20th-century model of development measured primarily by GDP per capita is profoundly inadequate. This paper argues that for India, "Viksit" must be reconceptualized as a holistic and resilient state characterized by three inextricably linked dimensions: Progress (broad-based, sustainable, and high-quality economic advancement), Innovation (the capacity for indigenous knowledge creation, technological adaptation, and diffusion across all sectors), and Equity (the elimination of multidimensional poverty and the guarantee of dignity, opportunity, and justice for all citizens, regardless of identity or geography).

The scale of the challenge is monumental. India must create sustainable livelihoods for its vast and youthful population, urbanize intelligently, decarbonize its rapidly growing economy, and overhaul its public service delivery all while strengthening its democratic fabric. This paper's objective is to delineate a coherent, transdisciplinary strategy that treats these goals not as trade-offs but as mutually reinforcing imperatives. It moves beyond siloed policy analysis to propose an integrated framework where industrial policy fuels innovation that solves for equity, and where social investments in human capital underpin long-term progress.

1. PILLARS OF AN INCLUSIVE DEVELOPMENT

Pillar I: Human Capital as the Bedrock of Progress

A developed India must primarily be a healthy and skilled India. Human capital is the foundational input for every other ambition.

- 1) **Health for All:** Beyond Access to Outcomes: India's health system requires a paradigm shift from sick-care to preventive, primitive, and holistic well-being. Strategies must include:
- 2) **Strengthening Primary Healthcare:** Dramatically increasing public investment to achieve the National Health Policy 2017 target of 2.5% of GDP, focusing on robust Sub-Centres and Primary Health Centres as the first point of contact. This requires a massive expansion of the community health workforce (ASHA, ANM) with better training, remuneration, and career pathways.
- 3) **Integrative and Digital Health:** Leveraging India's digital infrastructure (Ayushman Bharat Digital Mission) to create seamless health records, enable telemedicine, and manage public health surveillance. Simultaneously,

strategically integrating validated AYUSH systems can alleviate the burden on allopathic care and promote wellness.

- 4) **Nutrition Security:** Directly linking agriculture policy (e.g., Poshan Abhiyaan) to nutritional outcomes, focusing on dietary diversity, bio-fortification, and addressing childhood stunting and wasting as a national emergency.

Pillar II: Education and Lifelong Learning: From Rote to Critical Creation

The National Education Policy (NEP) 2020 provides a visionary blueprint. Its success hinges on:

- 1) **Foundational Literacy and Numeracy:** Achieving universal FLN by 2025 is non-negotiable. This requires mission-mode implementation with a focus on teacher capacity building, pedagogical innovation, and learning outcome assessment.
- 2) **Higher Education and Research:** Transforming universities into multidisciplinary research hubs with autonomy and accountability. Increasing Gross Enrollment Ratio (GER) to 50% must be paired with a dramatic improvement in quality. The "Ivy League" model for public institutions (IITs, IISc, central universities) must be supported by robust funding for state universities.
- 3) **Skill Ecosystem 2.0:** Moving beyond narrow, short-term training to a system of lifelong learning, apprenticeships, and continuous skill upgradation aligned with the dynamic demands of Industry 4.0. The National Skills Qualification Framework (NSQF) must be dynamically linked to formal education credits and industry-recognised certifications.

Pillar III: Techno-Industrial Transformation for Sustainable Progress

Progress requires a modern, productive, and globally competitive economic base that is also environmentally sustainable.

- I. **Achieving Technological Sovereignty** (Atmanirbharta in Innovation) Dependence on imported critical technologies (semiconductors, precision machinery, pharmaceuticals APIs) is a strategic vulnerability. A multi-pronged strategy is needed:
 - 1) **Mission-Oriented R&D:** Directing public R&D funding (through a revitalized DSIR and CSIR) towards "Grand Challenges": affordable healthcare, climate-resilient agriculture, clean energy storage, and cyber-security. The proposed National Research Foundation must catalyze public-private-academia partnerships.
 - 2) **Deep-Tech Startup Ecosystem:** Extending startup support beyond digital apps to hardware, biotech, space-tech, and green-tech. This requires patient capital, specialized incubators, and procurement guarantees from government and large industry.
 - 3) **Leveraging Digital Public Infrastructure (DPI):** India's unique success with India Stack (Aadhaar,

UPI, OCEN) provides a platform for innovation in finance, governance, and services. The next phase must focus on “DPI for Sustainability” (energy, carbon credits) and “DPI for Social Security” (portable benefits for gig workers).

II. Industrial Policy for the 21st Century: The Production-Linked Incentive (PLI) scheme is a step towards creating scale in strategic sectors. Its evolution should:

- 1) **Integrate with Clusters and MSMEs:** PLI must catalyze the development of industrial clusters with shared infrastructure and strong backward linkages to MSMEs, ensuring they are not crowded out but integrated into global value chains.
- 2) **Embrace Green Manufacturing:** Future industrial policy must have “green conditions,” promoting energy efficiency, circular economy principles (reuse, recycle), and the adoption of clean technologies. This aligns with global trends (e.g., EU’s Carbon Border Adjustment Mechanism) and creates export opportunities.
- 3) **Focus on Employment Elasticity:** Prioritizing sectors with high employment multipliers such as textiles, food processing, construction, and tourism alongside capital-intensive sunrise sectors.

Pillar IV: Institutional-Ecological Resilience as the Enabler of Equity

Progress and innovation will be unstable without resilient institutions and a healthy natural environment that ensure equitable distribution of benefits.

1. **Governance and Institutional Reform:** Governance and institutional reform involves updating organizational structures, procedures, and policies to improve public service delivery, enhance transparency, and strengthen accountability. It focuses on modernizing bureaucracy, reducing corruption, and increasing efficiency through technology and capacity building. These reforms are often driven by fiscal, legal, or public sector pressures to ensure sustainable development.
 - a) **Data-Driven and Participatory Governance:** Using technology to enhance transparency (e.g., e-governance, GeM portal), reduce discretion, and improve service delivery (PM-Jan Dhan-Aadhaar-Mobile trinity). Decentralization, with real financial and functional devolution to the third tier (Urban Local Bodies and Panchayats), is critical for responsive governance.
 - b) **Legal and Judicial Modernization:** Drastically reducing case pendency through judicial process reforms, alternative dispute resolution, and digital case management is essential for ease of living and doing business.
 - c) **Social Security Architecture:** Building a universal, portable, and contributory social security system that covers health, accident, disability, old age, and unemployment insurance, especially for the vast informal sector workforce.

2. Ecological Sustainability and Climate Action: India’s development path must be low-carbon and climate-resilient.

- a) **Energy Transition:** Aggressively scaling up renewable energy (solar, wind, green hydrogen) while modernizing the grid and developing pumped storage and battery storage solutions. Coal dependency will remain in the medium term, making investment in carbon capture and sequestration R&D crucial.
- b) **Climate-Smart Agriculture:** Promoting water-efficient micro-irrigation (Per Drop More Crop), drought-resistant crops, agro-forestry, and organic farming to protect farmer incomes against climate volatility.
- c) **Sustainable Urbanization:** Developing compact, walkable, public-transit-oriented cities with robust waste and water management systems. The Smart Cities Mission must evolve into “Green and Just Cities Mission.”

3. Bridging the Equity Gap: Spatial, Social, and Digital: Bridging the Equity Gap: Spatial, Social, and Digital" focuses on addressing the disparities in access to technology, resources, and opportunities across different locations (spatial), demographic groups (social), and technological platforms (digital) to create a more inclusive society.

- a) **Regional Balance:** Targeted infrastructure investment (logistics, power, digital connectivity) in Eastern India and the Himalayan region to unlock their economic potential and reduce inter-state disparities.
- b) **Social Inclusion:** Ensuring that affirmative action (for SCs, STs, and OBCs) evolves from access to representation to genuine empowerment through quality education, economic assets, and political participation. A gendered lens across all policies is vital for women-led development.
- c) **Digital Equity:** Treating broadband access as a public utility and ensuring digital literacy to prevent the creation of a new “digital underclass.”

4. Critical Tension Points and Strategic Trade-offs: The path to 2047 is fraught with inherent tensions that require careful navigation:

- a) **Jobless Growth vs. Employment Generation:** Capital-intensive, tech-driven growth may not create sufficient jobs. The strategy must balance promoting high-tech sectors with labor-intensive manufacturing and a vibrant services sector.
- b) **Urban Efficiency vs. Agrarian Livelihoods:** Rapid urbanization cannot come at the cost of agricultural distress. Policies must support increased farm productivity and facilitate orderly movement of labor to non-farm sectors.
- c) **Centralized Strategy vs. Federal Diversity:** A national vision must accommodate regional aspirations and allow states the flexibility to innovate based on comparative advantages.

5. **A Normative Framework for Viksit Bharat 2047:** This analysis culminates in a proposed normative framework centered on two core concepts:

- a) **Inclusive National Innovation Systems (INIS):** An ecosystem where innovation is explicitly directed towards inclusive goals, involves diverse actors (from grassroots innovators to MNCs), and diffuses benefits widely through affordable products and new livelihood opportunities.
- b) **Distributive Infrastructure:** Physical (transport, energy), social (health, education), and digital infrastructure consciously designed to connect lagging regions and populations to economic centers, thereby reducing spatial and social inequality.

In this framework, the state acts not as a dirigiste controller but as a catalytic investor, a regulator ensuring fair competition, and a guarantor of social protection. Civil society and the private sector are essential co-creators.

CONCLUSION

The Viksit Bharat 2047 vision is a civilizational call to action. Its realization requires a break from linear thinking and the courage to embrace an integrated, systems-based approach. The roadmap outlined here interlinking innovation-led economic progress with deep investments in human capital, building sustainable infrastructure, and innovating governance provides a framework for this journey. The true measure of success will not be India's rank on a global GDP table, but in the quality of life of its most marginalized citizen, the health of its rivers and forests, the creativity of its youth, and the strength of its democratic institutions. By pursuing progress, innovation, and equity not as separate goals but as mutually reinforcing strands of a single national project, India can achieve a development model that is not only transformative for itself but also offers a beacon of hope and a replicable template for the Global South. This is the promise of Viksit Bharat a nation that is developed not just in wealth, but in wisdom, wellness, and justice for all. With political will, consistent funding, and cooperation from the government, academia, business, and civil society, transforming rural education through accessible internet and platforms like SWAYAM and NPTEL becomes a achievable goal. This can help fulfill the RTE Act's promise, bridging gaps of geography, language, disability, and socioeconomic status. Empowering rural learners, paving the way for Viksit Bharat 2047.

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