Cognitive Thinking: An International Journal of Interdisciplinary Studies
ISSN: 3107-5088, Vol. 2, Issue-3 (July-Sep, 2026), pp.74-78, www.cognitivethinking.in

Viksit Bharat @2047: Challenges, Opportunities, and a Strategic Roadmap for India's Development

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D.O.I. https://doi.org/10.5281/zenodo.21443891
Article: Received: 30/06/2026, Accepted: 13/07/2026, Published: 19/07/2026.

Abstract: As India moves toward celebrating 100 years of independence in 2047, the concept of *Viksit Bharat* envisions the country emerging as a developed nation. This objective includes achieving strong economic performance, ensuring social inclusion, advancing technological capabilities, and maintaining environmental balance. Reaching this milestone, however, requires overcoming several deep-rooted challenges that continue to affect the country's progress. Although India has experienced significant economic growth, issues such as inadequate infrastructure, socio-economic disparities, and administrative constraints remain critical concerns. In addition, the country's wide-ranging diversity calls for a development strategy that is both flexible and inclusive, combining traditional practices with modern innovations. This study examines these challenges alongside potential opportunities that can drive transformation. By analyzing international experiences and proven development models, it suggests a strategic pathway for India to realize its goal of becoming a developed nation by 2047.

Keywords: Viksit Bharat, Development Strategy, Economic Progress, Inclusivity, Sustainability

1.Introduction: The path toward achieving *Viksit Bharat* extends beyond mere economic expansion; it emphasizes the need for inclusive growth where the advantages of development are accessible to all sections of society. Attaining this vision demands a holistic and multi-faceted strategy that tackles fundamental issues such as poverty, inequality, and environmental concerns. This paper aims to examine the key obstacles that may hinder India's progress, as well as the opportunities that can be effectively utilized for national advancement. Furthermore, it outlines a structured and comprehensive framework to guide India in realizing its aspiration of becoming a developed nation by the year 2047.

2. Challenges to Viksit Bharat @ 2047

2.1 Economic Challenges

- **Rising Income Disparity:** The divide between higher and lower income groups remains substantial, limiting inclusive development. As highlighted in the *World Inequality Report 2023*, the top 10% of the population controls a major share of national income, whereas the bottom half accounts for a significantly smaller portion. Such imbalance weakens social harmony and restricts equal opportunities.
- **Unemployment and Job Mismatch:** Despite having a large and youthful workforce, generating sufficient employment opportunities continues to be a major challenge. Unemployment rates remain relatively high, particularly among youth. Additionally, many individuals are engaged in jobs that do not align with their qualifications or skill levels, indicating widespread underemployment.
- **Limited Industrial Growth:** The Indian economy is largely driven by the service sector, contributing more than half of the GDP. In contrast, the manufacturing sector has a comparatively smaller

share, which affects large-scale employment generation and long-term economic resilience. Strengthening industrial development is therefore essential.

- **Agricultural Dependence:** A significant segment of the population depends on agriculture for livelihood, often relying on traditional and climate-dependent practices. Although a large share of the workforce is employed in this sector, its contribution to GDP remains relatively low, reflecting productivity challenges and the urgent need for modernization.

2.2 Infrastructure Challenges

- **Urban Infrastructure Gaps:** Rapid urbanization has led to overcrowded cities, resulting in inadequate housing, traffic congestion, and pressure on public services. Many urban areas struggle with insufficient transportation systems, waste management issues, and limited civic amenities.
- **Rural Infrastructure Deficiencies:** Development in rural regions is restricted by limited access to basic facilities such as reliable roads, electricity, and digital connectivity. Although progress has been made, many areas still lack consistent power supply and widespread internet access, slowing overall rural advancement.
- **Energy Dependence and Transition Issues:** Heavy reliance on fossil fuels makes the country vulnerable to international price volatility. While efforts toward renewable energy adoption are increasing, the pace of transition and supporting infrastructure development remains insufficient.
- **Inefficient Logistics and Supply Chains:** Weak transportation systems and fragmented logistics networks increase operational costs and reduce competitiveness in trade and industry. High logistics expenses, driven by inefficiencies in road, rail, and storage systems, pose a major barrier to economic efficiency.

2.3 Technological and Innovation Barriers

- **Insufficient Investment in Research and Development:** India allocates a relatively small share of its GDP to research and development compared to advanced economies. This limited funding restricts innovation and slows the development of advanced technologies, ultimately affecting global competitiveness.
- **Slow Adoption of Advanced Technologies:** The integration of emerging technologies associated with Industry 4.0—such as artificial intelligence, automation, robotics, and the Internet of Things—remains at an early stage. Although certain industries have begun incorporating these innovations, widespread adoption is constrained by high implementation costs and a shortage of adequately trained professionals.
- **Digital Inequality:** Uneven access to internet connectivity, especially in rural regions, creates a significant gap in digital participation. This disparity limits access to online services, digital education, and financial systems, thereby hindering inclusive digital growth and transformation.

2.4 Social and Educational Challenges

- **Educational Quality Concerns:** Many educational institutions face challenges related to inadequate infrastructure and outdated teaching methods. Foundational learning levels remain low in several regions, while higher education institutions often struggle to meet global standards.
- **Gap Between Skills and Industry Needs:** A large segment of the workforce lacks the practical skills required by modern industries. This mismatch between academic training and industry expectations reduces employability and productivity.
- **Weak Healthcare Systems:** Healthcare infrastructure, particularly in rural areas, is insufficient and often lacks qualified medical personnel. Limited access to quality healthcare services continues to affect overall public health outcomes.

2.5 Environmental and Sustainability Challenges

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- **Rising Pollution Levels:** Rapid industrial growth and urban expansion have contributed to significant air and water pollution. Environmental degradation poses serious risks to public health and ecological balance.
- **Effects of Climate Change:** Changing climate patterns, including increasing temperatures and unpredictable weather conditions, threaten agricultural productivity and natural ecosystems. The frequency of extreme events such as floods and droughts has also risen.
- **Depletion of Natural Resources:** Excessive exploitation of resources, particularly groundwater, without sustainable management practices has created long-term environmental concerns. This overuse threatens future water availability for both agriculture and human consumption.

3. Opportunities for India's Development

3.1 Economic and Industrial Opportunities

• Demographic Advantage:

India has a large and youthful population, which creates strong potential for economic expansion. With an average age of about 28 years, the country stands among the youngest in the world. This advantage can accelerate growth if young people are provided with proper education, skill development, and job opportunities.

• Growing Consumer Market:

India's rising population with higher purchasing power offers significant prospects for businesses, both domestic and international. The steady expansion of the middle class and increased incomes are boosting demand in sectors like consumer products, automobiles, electronics, and services.

3.2 Digital and Technological Progress

• Artificial Intelligence and Automation:

The use of AI and automation can greatly improve efficiency in sectors such as healthcare, agriculture, and manufacturing. Reports suggest that AI could contribute significantly to India's economic growth by 2035. Its adoption can enhance productivity, reduce costs, and enable smarter decision-making across industries.

• Growth of 5G and Internet Access:

The expansion of 5G networks and wider internet availability will strengthen digital services and learning systems. Faster connectivity will support innovations like telemedicine, online education, and smart technologies, benefiting both urban and rural populations.

• Advancements in Space and Defense Technology:

India's progress in space missions and indigenous defense production has improved its global reputation. Successful projects and locally developed defense equipment demonstrate the country's growing capability in these strategic sectors.

3.3 Infrastructure Development

• Smart Cities Initiative:

The Smart Cities program focuses on modern urban planning using technology to create sustainable and efficient cities. It emphasizes better transportation, digital governance, and improved quality of life.

• Expansion of Renewable Energy :

India is actively promoting solar and wind energy to reduce reliance on fossil fuels. Ambitious targets for renewable capacity open up major investment opportunities and support environmental sustainability.

• Improved Transportation Systems :

Development of highways, railways, and waterways is enhancing connectivity and trade efficiency. Large-scale projects aim to reduce logistics costs and support economic growth.

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- **Affordable Housing for All :**
  Government housing schemes aim to provide affordable homes to economically weaker sections, helping reduce slums and improve living conditions in urban areas.

3.4 Social and Human Capital Development

- **Education Reforms: Modern** education policies emphasize skill-based learning, STEM subjects, and the integration of technology. The focus is on creating a flexible and multidisciplinary education system.
- **Empowerment of Women:** Efforts are being made to increase women's participation in education, employment, and leadership roles. Social programs encourage gender equality and women's development.
- **Strengthening Public Healthcare:** Healthcare services are being expanded through insurance schemes, telemedicine, and advanced diagnostics, aiming to make quality healthcare accessible to a larger population.
- **Skill Development Initiatives:** Programs focused on training and upskilling are preparing the workforce for modern industries, especially in areas like AI, robotics, and data analytics.

4. Roadmap to Achieve Viksit Bharat @2047

4.1 Economic and Industrial Growth

- **Strengthening Manufacturing and MSMEs:** Improving infrastructure, easing regulations, and supporting small businesses can enhance industrial growth and global competitiveness.
- **Promoting Foreign Investment:** Investor-friendly policies and transparent regulations can attract more foreign direct investment into key sectors.
- **Agricultural Modernization:** Using advanced technologies like drones and smart farming methods can increase productivity and reduce losses.
- **Financial Inclusion:** Expanding banking services and digital payments in rural areas can empower small entrepreneurs and improve economic participation.

4.2 Digital Transformation and Technology

- **Adoption of Advanced Technologies:** Integrating AI, Iota, and block chain into governance and industries can improve efficiency and innovation.
- **Strengthening Cyber security:** Developing strong digital security systems and awareness programs is essential to protect data and infrastructure.
- **Smart Governance:** Expanding digital services and e-governance can make administration more transparent and efficient.
- **Reducing the Digital Divide:** Improving internet access and digital literacy in rural areas ensures inclusive technological growth.

4.3 Human Capital and Education

- **Education System Reform:** Modernizing education with technology and practical learning approaches can prepare students for future challenges.
- **Skill Development:** Vocational training and industry partnerships can equip workers with skills needed for advanced technologies.
- **Improving Higher Education:** Investments in research and quality education can create globally competitive institutions.

4.4 Environmental Sustainability

- **Net-Zero Goals:** Promoting renewable energy and sustainable practices can help achieve long-term climate targets.
- **Renewable Energy Growth:** Expanding solar and wind energy projects will reduce dependence on conventional energy sources.

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• **Electric Mobility Promotion:** Encouraging electric vehicles and developing charging infrastructure supports cleaner transportation.

5. Conclusion: The vision of Viksit Bharat @2047 requires a comprehensive and balanced approach. By focusing on economic growth, technological progress, environmental sustainability, and strong governance, India can achieve its long-term development goals. Effective collaboration between the government, private sector, and citizens will be crucial in transforming this vision into reality and establishing India as a leading global power.

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