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Sustainable Development and Knowledge Integration for A Viksit Bharat 2047: Interdisciplinary Pathways Through Economics, Geography, Commerce and Information Science

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Abstract

The vision of Viksit Bharat 2047 represents India's aspiration to emerge as a developed, inclusive, and sustainable nation by the centenary year of its independence. Achieving this goal requires a development framework that integrates sustainability with knowledge across multiple disciplines. Sustainable development has become a global necessity due to environmental degradation, socioeconomic inequalities, and rapid technological transformations. This paper examines the role of sustainable development supported by interdisciplinary knowledge integration in shaping India's future growth trajectory. Drawing insights from Economics, Geography, Commerce, and Information Science, the study highlights how integrated knowledge systems can address complex developmental challenges. The paper emphasizes that interdisciplinary collaboration is essential for inclusive growth, environmental sustainability, digital transformation, and long-term national resilience. The study concludes that knowledge integration across disciplines is a key driver for realizing the objectives of Viksit Bharat 2047.

Keywords: Sustainable Development, Knowledge Integration, Viksit Bharat 2047, Interdisciplinary Approach, Digital Transformation

Introduction

India's journey toward becoming a developed nation by 2047, popularly termed as Viksit Bharat 2047, reflects a long-term vision of economic prosperity, social equity, environmental sustainability, and technological advancement. In the contemporary global context, development is no longer defined solely by economic growth indicators; instead, it encompasses sustainability, inclusiveness, and knowledge-based progress.

Rapid industrialization, urbanization, climate change, and technological disruption have created multidimensional challenges that cannot be addressed through isolated disciplinary approaches. Sustainable development therefore requires integration of knowledge across multiple domains. Economics, Geography, Commerce, and Information Science collectively provide a comprehensive framework for understanding and managing developmental processes. This paper explores how interdisciplinary knowledge integration can support sustainable development and contribute to the realization of Viksit Bharat 2047.

Concept of Sustainable Development

Sustainable development refers to development that meets present needs without compromising the ability of future generations to meet their own needs. It is founded on three interrelated pillars: economic growth, environmental protection, and social well-being.

For a country like India, sustainability is crucial due to population pressure, regional disparities, natural resource constraints, and climate vulnerability. Sustainable development ensures long-term economic stability while preserving ecological balance and promoting social justice. Hence, sustainability must be embedded in national planning and policy frameworks aimed at achieving Viksit Bharat 2047.

Economic Perspective on Sustainable Development

Economics plays a fundamental role in shaping sustainable development strategies.

Sustainable economic growth emphasizes efficiency, productivity, innovation, and inclusive employment generation while minimizing environmental costs.

Key economic dimensions supporting sustainable development include:

- Promotion of renewable and green energy sectors
- Inclusive growth through skill development and entrepreneurship
- Poverty reduction and income equality
- Sustainable fiscal and industrial policies
- Economic initiatives aligned with sustainability strengthen national resilience and support long-term development goals. A sustainable economic framework ensures balanced growth and social stability.

Geographical Dimensions of Sustainability

Geography provides spatial insights into population distribution, resource availability, climate patterns, and regional development. Sustainable planning must account for geographical diversity and environmental sensitivity.

Geographical knowledge contributes to sustainability through:

- Efficient land and water resource management
- Climate change adaptation and mitigation strategies
- Disaster risk reduction and resilience planning
- Balanced urban and rural development
- Technological tools such as GIS and remote sensing support evidence-based planning and policy implementation, strengthening sustainable development outcomes.

Role of Commerce in Sustainable Development

Commerce plays a significant role in achieving sustainability through ethical business practices, responsible consumption, and sustainable supply chains. Modern commercial systems increasingly emphasize long-term value creation rather than short-term profits.

Sustainable commerce includes:

- Corporate Social Responsibility (CSR) initiatives
- Environment-friendly production and green marketing
- Ethical trade and supply chain transparency
- Digital commerce and financial inclusion
- By aligning commercial activities with sustainability principles, businesses contribute to inclusive economic growth and national development.

Information Science and Knowledge-Based Sustainability

Information Science has emerged as a key driver of sustainable development by enabling digital innovation, data management, and

knowledge dissemination. Digital technologies enhance governance efficiency, transparency, and accessibility. The contribution of Information Science includes:

- E-governance and digital public services
- Data-driven policy formulation
- Artificial intelligence and smart systems
- Knowledge management and digital literacy
- National initiatives such as Digital India highlight the role of information technology in promoting inclusive and sustainable development.

Knowledge Integration and Interdisciplinary Approach

Sustainable development challenges are complex and interconnected, requiring interdisciplinary solutions. Knowledge integration involves combining perspectives, methodologies, and insights from multiple disciplines to develop holistic strategies.

An interdisciplinary approach enables:

- Integrated and evidence-based policymaking
- Innovation through collaborative research
- Sustainable infrastructure and economic planning
- Inclusive technological and social development
- Academic institutions and multidisciplinary conferences play a vital role in fostering knowledge integration and collaborative learning.

Significance of Multidisciplinary Conferences

Multidisciplinary conferences provide platforms for intellectual exchange, innovation, and collaborative research. They bridge the gap between theory and practice and encourage interdisciplinary dialogue. Such academic forums support national development goals by promoting integrated knowledge systems and sustainable solutions aligned with the vision of Viksit Bharat 2047.

Conclusion

The vision of Viksit Bharat 2047 can be realized only through sustainable development supported by interdisciplinary knowledge integration. Economics, Geography, Commerce, and Information Science collectively offer a comprehensive framework for addressing India's developmental challenges. An integrated and sustainable approach ensures economic prosperity, environmental balance, social inclusion, and technological progress. Therefore, interdisciplinary collaboration and knowledge integration must remain central to India's development strategy for building a resilient and developed nation by 2047.

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Conflicts of interest

The authors declare that there are no conflicts of interest regarding the publication of this paper.

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