

Manuscript ID:
TIJCMBLIR-2026-030141

Volume: 3

Issue: 1

Month: February

Year: 2026

E-ISSN: 3065-9191

Submitted: 27 Jan 2026

Revised: 31 Jan 2026

Accepted: 23 Feb 2026

Published: 28 Feb 2026

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DOI: [10.5281/zenodo.19233113](https://doi.org/10.5281/zenodo.19233113)

DOI Link:

<https://doi.org/10.5281/zenodo.19233113>



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Digitalization: Pathways to Sustainable Growth under India's Viksit Bharat 2047 Framework

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Abstract

India wants to become a sustainable country by the time it is one hundred years independent this is what India's vision of Viksit Bharat 2047 is all about. India's vision of Viksit Bharat 2047 is very important. To achieve India's vision of Viksit Bharat 2047 India needs to focus on a key thing. The main things are using knowledge to make the economy stronger and making use of technology. These two things can help India's economy grow in a way. This research paper looks at how using knowledge and digital technology can help India grow in a way specifically in the context of India's vision of Viksit Bharat 2047 and the Indian economy. The study looks at how India can make progress towards Viksit Bharat 2047. It does this by looking at how education and new ideas can work with digital infrastructure and good governance.

The study wants to know how these things can help India become Viksit Bharat 2047. It talks about how new knowledge and digital technologies can help India become more sustainable. The study also gives some ideas for policies that can help India develop in a way that's good for everyone and can withstand problems.

Keywords: Knowledge Economy, Digitalization, Sustainable Growth, Viksit Bharat 2047, Digital India, Human Capital

Introduction:

The world of money and business has changed a lot with the rise of the knowledge economy and the internet. These days a country's economy does not just grow because of factories and natural resources. The knowledge economy and digitalization are very important now. For a country like India that is still developing it is very important to use these things to grow in a way that will last. India needs to focus on knowledge, new ideas, skills and digital capabilities to do well in the term. The knowledge economy is key, to India's success.

The Government of India has a plan called Viksit Bharat 2047. This plan is to make India a rich country by the year 2047. India will be a place to live with good income, equal rights for all people and a clean environment. The Government of India wants India to be a country that can compete with other countries.

The Government of India thinks that using computers and technology is very important for India's growth. This will help India become more productive, make decisions and create new things. Digitalization and knowledge will help India become a country for everyone. Viksit Bharat 2047 is about making India a great country with the help of technology and education.

This paper wants to see how the knowledge economy and digitalization can help India have growth. This growth is part of India's Viksit Bharat 2047 framework. The knowledge economy and digitalization are, like roads that can take India to growth. India's Viksit Bharat 2047 framework is very important for the knowledge economy and digitalization to work together.

Conceptual Framework

Knowledge Economy

The knowledge economy is an economy that is based on people having and using knowledge to make money and grow. This is where people create, share and use knowledge to get. Key things that are part of the knowledge economy include:

- Human capital and education
- Research and development (R&D)
- Innovation and intellectual property
- Information and communication technologies (ICT)

When we talk about a knowledge economy we need to think about education and skill development and innovation. These things are very important. They help the economy to grow in a way. Education and skill development and innovation make people more productive.

How to Cite this Article:

Goyal, H. B. (2026). Harsha Bharat Goyal. *The International Journal of Commerce Management and Business Law in International Research*, 3(1), 206–208.
<https://doi.org/10.5281/zenodo.19233113>

This means people can do their jobs better. It also means that the country can compete with countries. The best part is that everyone gets to benefit from this growth. The growth is inclusive. This is what happens when we invest in education and skill development and innovation in a knowledge economy.

Digitalization

Digitalization is about using stuff to change the way we do things in the economy in government and, with each other. It includes:

- Digital infrastructure (broadband, cloud computing, data centers)
- Digital platforms and services
- E-governance and digital public goods
- Industry 4.0 technologies such as AI, IoT, and big data

Digitalization makes things work better. It helps people see what is going on and makes it easier for them to get the services they need. Digitalization is also very good at helping ideas and innovation happen in all kinds of areas. This is because digitalization improves efficiency, transparency, access to services and innovation across sectors, including the digitalization of businesses and the digitalization of governments. Digitalization is really important, for making things better.

Sustainable Growth

Sustainable growth is, about making sure we have development that helps people now without hurting the chances of future generations. It has three parts:

- Economic sustainability (stable and inclusive growth)
- Social sustainability (equity, employment, and inclusion)
- Environmental sustainability (resource efficiency and climate resilience)

Review of Literature

The existing literature shows that knowledge-based assets, digitalization and economic growth are really connected. Knowledge-based assets and digitalization are important for growth. When economies put money into education, research and development and digital infrastructure they see results and can handle problems more easily. Knowledge-based. Digitalization help with this. In countries that are still developing digital technologies can help them make progress by improving access to markets getting money and using public services. Digitalization and knowledge-based assets are key, to this progress.

Indian studies look at things like Digital India, Startup India and Skill India. These things help with ideas starting new businesses and creating jobs.. There are still some problems. We need to make sure that what we know helps the planet and is good for everyone, not some people. Digital India, Startup India and Skill India should also think about the differences, between regions and how to protect the environment.

Objectives of the Study

The specific objectives of the study are:

- To examine the role of the knowledge economy in promoting sustainable economic growth in India.
- To analyze the impact of digitalization on productivity, inclusion, and governance.
- To explore the alignment of knowledge economy and digitalization initiatives with the Viksit Bharat 2047 framework.
- To propose a conceptual framework linking knowledge, digitalization, and sustainability.

Research Methodology

The study is based on ideas and descriptions using information that already exists. The information comes from the following sources:

- Government policy documents and reports
- Publications from international organizations
- Academic journals and research papers
- Reports on digital economy and sustainability

The analysis is about looking at things in a way it focuses on understanding what the policy means looking at what is happening over time and putting together what we already know from other research, about the policy the trend analysis and the existing research.

Knowledge Economy and Sustainable Growth in India

India has really come a way in creating an economy that is based on knowledge. This is because of the growth of education the information technology sector and the services sector. India is also very good at promoting ideas and helping new businesses get started.

The places where people go to learn things, like colleges and universities are very important. So are the organizations that do research and the programs that help people learn skills. All these things help make the people of India more capable and skilled which is very important, for the country.

- A strong knowledge economy helps a lot with growth by:
- Improving labor productivity
- Encouraging innovation-led industrial development
- Generating high-quality employment
- Supporting inclusive and regionally balanced growth

However, challenges such as skill mismatches, uneven access to quality education, and low R&D expenditure persist.

Digitalization as a Catalyst for Sustainable Development

Digitalization is really changing things in India. It is helping our economy and society in a way. We have things like Aadhaar and UPI which're like special tools that help people get the services they need. These digital service platforms are making it easier for people to get money and other important things. Digitalization is also making things more transparent so we can see what is going on. Digitalization and digital public infrastructure like Aadhaar and UPI are very important, for India.

The contribution of digitalization to growth includes:

* It helps the digitalization make our lives easier

* The digitalization also makes things more efficient

Digitalization is really helpful, for medium enterprises. It helps them get into the market. Come up with new ideas. Digitalization supports medium enterprises in many ways like letting them access the market and be innovative. The digitalization is very important, for growth because the digitalization helps us in many ways.

The digitalization and sustainable growth are connected in a way.

- Enhanced efficiency and reduced transaction costs
- Improved access to education, healthcare, and finance
- Support for green technologies and smart solutions
- Strengthened governance through e-governance systems

Viksit Bharat 2047 Framework: Integrating Knowledge and Digitalization

The Viksit Bharat 2047 framework is about making sure everyone benefits from growth. This means The Viksit Bharat 2047 framework wants to make sure that growth is inclusive. The Viksit Bharat 2047 framework also wants to encourage innovation be sustainable and take a leading role globally.

The Viksit Bharat 2047 framework thinks that knowledge and digital technology are very important, for achieving these goals by:

- Creating a skilled and future-ready workforce
- Promoting innovation and entrepreneurship
- Strengthening digital governance and institutions
- Supporting sustainable and resilient economic systems

When we combine knowledge systems with technologies it can really help us move forward with the things our nation wants to achieve. The integration of knowledge systems with technologies is very important for our national development objectives. We need to focus on the integration of knowledge systems, with technologies to get where we want to be.

Proposed Conceptual Model

The proposed conceptual model shows how things are connected between:

- Inputs: Education, skills, R&D, digital infrastructure
- Processes: Innovation, digital adoption, governance reforms
- Outcomes: Productivity growth, inclusion, sustainability

This model is really good because it helps our country have term growth that is good, for everyone. The Viksit Bharat 2047 vision is what this model is based on and it supports growth that will last for a long time and is sustainable. The Viksit Bharat 2047 vision is very important. This model is a big part of making sure we achieve the goals of the Viksit Bharat 2047 vision.

Policy Implications and Recommendations

- Increase investment in education, skill development, and R&D.
- Strengthen digital infrastructure, especially in rural and backward regions.
- Promote integration of sustainability goals with digital and knowledge initiatives.
- Encourage collaboration between academia, industry, and government.
- Develop regulatory frameworks supporting digital innovation and data security.

Conclusion

India needs to move towards a system where people have access to a lot of information and are good at using computers. This is really important if India wants to keep growing in a way that's good for everyone. The Viksit Bharat 2047 plan is a help here. It combines a knowledge-based economy and digital technology to make sure everyone benefits and the country can withstand times. India has come a way already. But to really make this plan work the government needs to keep helping people need to keep investing. The country needs to make some changes, to how it does things. The goal of the Viksit Bharat 2047 plan is to make sure India has an sustainable future.

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