

The Role of Logistics and Infrastructure in Promoting International Trade

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Abstract: This study aims to explore the role of logistics and infrastructure in promoting international trade. Through systematic analysis of relevant theories and practical impacts, the research finds that logistics and infrastructure play key roles in reducing transaction costs, enhancing trade speed and reliability, and promoting market connectivity and integration. Specifically, an efficient logistics system can optimize transportation, warehousing, distribution, and inventory management, thereby improving the overall efficiency of international trade. Meanwhile, modern transportation, information and communication, and energy infrastructure provide robust support for international trade, facilitating efficient global supply chain operations and economic growth. However, the logistics and infrastructure sectors also face challenges such as infrastructure aging, cross-border logistics barriers, environmental issues, and sustainability concerns. In the future, smart logistics, green logistics, public-private partnerships, and international cooperation will become important development trends. Based on these findings, this paper proposes that governments should formulate supportive policies and improve infrastructure investment mechanisms, while enterprises should enhance logistics optimization and technological innovation. By conducting an in-depth study of the role of logistics and infrastructure in international trade, this research aims to provide theoretical support and practical guidance for policymakers and enterprises, promoting sustainable development in international trade.

Keywords: Logistics; Infrastructure; International Trade.

1. Introduction

In the context of rapid globalization and digitalization, the role of logistics and infrastructure in international trade has become increasingly important. Efficient logistics systems and modern infrastructure can not only reduce transaction costs and improve trade speed and reliability but also promote market connectivity and integration, driving global economic growth and development. As the scale of international trade continues to expand, the demands on logistics efficiency and infrastructure quality from both businesses and countries are also increasing. Meanwhile, the call for environmental protection and sustainable development is growing louder. How to achieve green logistics and sustainable development while enhancing logistics efficiency has become a critical research topic. This study aims to systematically analyze the role of logistics and infrastructure in international trade, explore their impact on economic growth and sustainable development, and propose corresponding policy recommendations and business strategies, providing theoretical support and practical guidance for policymakers and businesses.

2. Theoretical Foundation

2.1. International Trade Theories

International trade theories study the fundamental principles and mechanisms of the exchange of goods and services between countries, providing a theoretical foundation for understanding the role of logistics and infrastructure in international trade. The following are several relevant international trade theories:

Absolute Advantage Theory: Proposed by Adam Smith in "The Wealth of Nations," the absolute advantage theory suggests that when a country can produce a certain good more efficiently than other countries, it should specialize in the

production of that good and trade for goods that it cannot produce as efficiently. Improvements in logistics and infrastructure can further enhance a country's absolute advantage by increasing production and transportation efficiency and reducing costs.

Comparative Advantage Theory: David Ricardo introduced the comparative advantage theory in the early 19th century, which posits that even if a country does not have an absolute advantage in producing any goods, it should still specialize in producing goods for which it has a relative advantage and trade for other goods. Optimizing logistics and infrastructure can reduce trade barriers and transportation costs, thereby better leveraging the comparative advantages of various countries.

Factor Endowment Theory: The Heckscher-Ohlin model posits that a country's production advantage is determined by its factor endowments. Countries with abundant capital tend to produce capital-intensive goods, while countries with abundant labor tend to produce labor-intensive goods. Efficient logistics and robust infrastructure enable countries to more effectively utilize their factor endowments by facilitating the optimal allocation of resources through convenient transportation and communication.

New Trade Theory: In the 1970s, Paul Krugman and others proposed the new trade theory, emphasizing the impact of economies of scale and network effects on international trade. The new trade theory suggests that the expansion of market size can increase production efficiency and lower unit costs due to economies of scale, while network effects concentrate specific industries in a few countries. Efficient logistics networks and modern infrastructure can support the realization of economies of scale and the expansion of network effects, promoting further development of global trade.

Gravity Model: The gravity model is used to explain bilateral trade flows, similar to the law of gravity in physics.

According to this model, the trade volume between two countries is directly proportional to their economic sizes and inversely proportional to the distance between them. High-quality logistics and infrastructure can mitigate the barriers posed by physical distance, enhancing the flow and efficiency of international trade.

By analyzing these international trade theories, we can better understand the importance of logistics and infrastructure in international trade and provide a solid theoretical foundation for subsequent research.

2.2. Logistics Theories

Logistics theories involve the effective flow of materials from the supply point to the demand point and are a crucial component of supply chain management. The main logistics-related theories include:

Supply Chain Management Theory: Supply Chain Management (SCM) theory emphasizes coordination among the various stages of the supply chain to maximize overall efficiency. An efficient logistics system can optimize the entire process from raw material procurement to final product delivery, enhancing the supply chain's responsiveness and service levels while reducing costs.

Logistics Network Design Theory: Logistics network design theory focuses on the layout and optimization of logistics facilities (such as warehouses and distribution centers) and transportation routes. Scientific design of logistics networks can reduce transportation distances and times, lower logistics costs, and improve service quality.

Just-In-Time (JIT) Theory: Originating from Toyota in Japan, Just-In-Time (JIT) theory emphasizes precise logistics management to deliver materials to the production line exactly when needed, minimizing inventory, reducing costs, and improving efficiency.

Third-Party Logistics (3PL) Theory: Third-Party Logistics (3PL) theory advocates for companies to outsource logistics activities to specialized logistics service providers, allowing them to focus on their core business. 3PL providers can offer more efficient and cost-effective logistics solutions through economies of scale and specialized services.

By understanding these logistics theories, we can appreciate the mechanisms through which efficient logistics systems enhance supply chain management and support the overall process of international trade.

2.3. Infrastructure Theories

Infrastructure theories study the impact of transportation, communication, and energy infrastructure on economic development, providing a crucial basis for analyzing the role of logistics in international trade. The following are several infrastructure-related theories:

Transportation Infrastructure Theory: The completeness of transportation infrastructure (such as roads, railways, ports, and airports) directly affects the efficiency and cost of goods circulation. Modern transportation networks can significantly reduce transportation time, lower transportation costs, and enhance the competitiveness of international trade.

Information and Communication Infrastructure Theory: The development of information and communication infrastructure (such as the internet and mobile communications) improves the speed and quality of information flow, promoting trade transparency and efficiency. Advanced information and communication technologies enable companies to grasp market dynamics in

real-time, respond quickly to customer needs, and optimize supply chain management.

Energy Infrastructure Theory: Stable and sufficient energy supply is the foundation of economic activities. The reliability and coverage of energy infrastructure (such as electricity and gas) affect the continuity and stability of production and transportation. Good energy infrastructure ensures the smooth operation of logistics and production activities, supporting the stable development of international trade.

By analyzing these logistics and infrastructure theories, we can provide a more comprehensive and in-depth theoretical basis for understanding the role of logistics and infrastructure in international trade.

3. The Role of Logistics in International Trade

Logistics refers to the effective flow and management of materials from the supply point to the demand point, playing a crucial role in international trade. An efficient logistics system can not only reduce transaction costs and improve transportation efficiency but also enhance a company's competitiveness in the global market. The main roles of logistics in international trade include:

3. The Role of Logistics in International Trade

3.1. Reducing Transaction Costs

Logistics efficiency directly impacts the transaction costs in international trade. An efficient logistics system can lower costs by optimizing transportation routes, improving loading and unloading efficiency, and reducing intermediate links. For example, utilizing multimodal transport that combines sea, land, and air transport can significantly reduce the costs of long-distance transportation. Lower transaction costs enable companies to have stronger price competitiveness in the international market, thereby promoting trade growth.

3.2. Improving Trade Speed and Reliability

Timely delivery and reliable transportation are key to ensuring customer satisfaction and maintaining long-term cooperation relationships in international trade. An efficient logistics system, using advanced transportation tools and technologies, can significantly improve the speed and reliability of goods transportation. For instance, using real-time tracking systems allows companies and customers to know the status of goods at any time, reducing misunderstandings and disputes caused by information asymmetry. Efficient logistics not only shortens delivery times but also improves transportation accuracy and reliability, enhancing trust between trade partners.

3.3. Promoting Market Connectivity and Integration

The completeness of the logistics network determines the level of market connectivity and integration. A modern logistics network can connect markets around the globe, promoting the free flow of goods, services, information, and capital. For example, the construction and development of international ports, airports, and logistics hubs greatly improve trade convenience between countries. Through an efficient logistics system, companies can more flexibly adjust their supply chains and quickly respond to market changes, enhancing market adaptability.

3.4. Supporting Global Supply Chain Management

Global supply chain management is a crucial component of international trade, and an efficient logistics system is essential for its smooth operation. Logistics acts as a bridge in the global supply chain, connecting suppliers, manufacturers, distributors, and retailers, ensuring smooth material flow across all stages. For example, multinational companies can achieve economies of scale and reduce operational costs by establishing global logistics centers for centralized management and dispatch of goods. Efficient logistics operations can improve the overall efficiency and flexibility of the supply chain, enhancing companies' competitiveness in the global market.

3.5. Promoting Economic Growth and Technological Innovation

The development of the logistics industry plays a crucial role in promoting economic growth and technological innovation. An efficient logistics system can facilitate the rational allocation of production factors, increase production efficiency, and drive industrial upgrading. For example, the development of cold chain logistics has significantly boosted the international trade of agricultural and pharmaceutical products. Continuous innovation in logistics technology, such as drone delivery, autonomous trucks, and smart warehousing systems, not only improves logistics efficiency but also stimulates the development of related technologies and industries. The prosperity of the logistics industry can create numerous job opportunities and drive overall economic growth.

3.6. Addressing Environmental and Sustainability Challenges

As global awareness of environmental protection increases, the sustainability of logistics in international trade has garnered increasing attention. The concepts of green logistics and sustainable logistics have emerged, aiming to reduce carbon emissions and environmental pollution by optimizing transportation routes, improving the energy efficiency of transportation tools, and promoting eco-friendly packaging materials. For example, using new energy vehicles for delivery and promoting recyclable packaging materials can significantly reduce the environmental impact of logistics processes. An efficient green logistics system not only meets environmental requirements but also enhances a company's social image and market competitiveness.

In summary, logistics plays a crucial role in international trade. By reducing transaction costs, improving transportation speed and reliability, promoting market connectivity and integration, supporting global supply chain management, driving economic growth and technological innovation, and addressing environmental and sustainability challenges, an efficient logistics system can significantly enhance the efficiency and competitiveness of international trade. Businesses and governments should prioritize the development of logistics, actively promote logistics technology innovation, and invest in infrastructure construction to ensure the sustainable and healthy development of international trade.

4. The Role of Infrastructure in International Trade

Infrastructure is a key element supporting economic activities and trade flows, playing a crucial role in promoting international trade. High-quality infrastructure can enhance transportation and communication efficiency, promote market connectivity and integration, and drive economic growth and technological innovation. The primary roles of infrastructure in international trade include:

4.1. Improving Transportation Efficiency

Efficient transportation infrastructure (such as roads, railways, ports, and airports) is the foundation of international trade. Modern transportation networks can significantly shorten transportation time, reduce transportation costs, and improve overall logistics efficiency. For example, automated equipment and advanced container management systems at ports can increase loading and unloading efficiency and cargo transfer speed. The improvement of railway and road networks ensures the rapid transportation of goods in inland areas. Multimodal transport, which combines road, rail, sea, and air transport, can optimize logistics processes and reduce transportation costs. Comprehensive multimodal transport infrastructure, such as container terminals, freight hubs, and logistics parks, can achieve seamless connections between different modes of transport, enhancing logistics efficiency and reliability.

4.2. Promoting Market Connectivity and Integration

Advanced information and communication infrastructure (such as the internet, mobile communications, and data centers) improve the speed and quality of information flow in international trade. High-speed internet and reliable communication networks enable businesses to access market information in real time, conduct online transactions, and manage operations remotely. Data centers and cloud computing technologies provide companies with powerful data storage and processing capabilities, supporting global supply chain management and big data analysis. The development of e-commerce platforms and cross-border e-commerce also relies on the support of information and communication infrastructure. These platforms provide convenient transaction and payment methods, breaking the time and space constraints of traditional trade and promoting the integration of global markets. Companies can reach global consumers directly through digital platforms, expanding their market coverage.

4.3. Promoting Economic Growth and Technological Innovation

It is well known that infrastructure investment is a vital means of driving economic growth. Modern infrastructure construction not only creates a large number of jobs but also enhances productivity and economic efficiency. For example, the construction of high-speed railways and highways can significantly improve interregional connectivity and promote regional economic integration. Modern infrastructure also drives innovation in logistics and transportation technologies. The application of technologies such as autonomous driving, intelligent transportation systems, and the Internet of Things in transportation not only improves transportation efficiency but also enhances safety and reliability. Modern ports and

airports, through the application of automation and information technologies, significantly improve operational efficiency and service levels.

4.4. Enhancing Supply Chain Flexibility and Resilience

Efficient warehousing and distribution facilities are key to international supply chain management. Modern warehousing facilities, such as automated warehouses and cold chain logistics centers, can improve inventory management and cargo turnover efficiency. The strategic layout of distribution centers and advanced distribution systems ensures timely delivery of goods, meeting the rapid changes in market demand. Supply chain management platforms based on information technology integrate the information flow of each stage, enhancing the transparency and coordination of the supply chain. These platforms can monitor cargo movement in real-time, optimize inventory management and transportation scheduling, and improve the flexibility and resilience of the supply chain.

4.5. Supporting Green Economy and Sustainable Development

Green infrastructure, such as eco-friendly transportation tools, clean energy facilities, and green buildings, can reduce environmental pollution and resource consumption, supporting the development of the green economy. For example, the use of electric trucks and new energy ships can significantly reduce carbon emissions; the promotion of clean energy sources such as solar and wind power can provide sustainable energy supplies for logistics and production. Circular economy infrastructure promotes resource recycling, achieving a win-win situation for economic and environmental benefits. Facilities such as recycling centers, remanufacturing plants, and resource regeneration bases can effectively reduce resource waste and environmental pollution, promoting sustainable development.

In conclusion, infrastructure plays a crucial role in international trade. By improving transportation and communication efficiency, promoting market connectivity and integration, driving economic growth and technological innovation, enhancing supply chain flexibility and resilience, and supporting the green economy and sustainable development, high-quality infrastructure can significantly enhance the efficiency and competitiveness of international trade. Businesses and governments should prioritize infrastructure construction and upgrades, actively promote technological innovation and green development, to ensure the sustainable and healthy development of international trade.

5. Challenges and Development Trends in Logistics and Infrastructure

5.1. Major Challenges in Logistics and Infrastructure

(1) Aging Infrastructure

Over time, infrastructure in many countries and regions has gradually aged and can no longer meet the demands of modern international trade. Old roads, railways, ports, and airports not only reduce transportation efficiency but also increase maintenance and operational costs. This situation is especially pronounced in developing countries, where outdated infrastructure has become a bottleneck in the

development of international trade.

(2) Cross-Border Logistics Barriers

International trade involves multiple countries and regions, with differing regulations, standards, and policies often leading to the complexity and uncertainty of cross-border logistics. Complicated customs procedures, tariff barriers, and varying safety and environmental standards among countries pose significant challenges to cross-border logistics. These obstacles not only prolong delivery times but also increase transportation costs, affecting the smooth flow of international trade.

(3) Environmental and Sustainability Issues

The development of logistics and infrastructure has certain impacts on the environment. High energy consumption and greenhouse gas emissions exacerbate global climate change. Additionally, issues such as noise and waste disposal during the logistics process negatively affect the environment and residents' lives. How to reduce environmental pollution while improving logistics efficiency and achieve sustainable development has become an urgent problem to solve.

(4) Technology Integration and Data Security

As logistics and infrastructure undergo digital transformation, the widespread application of big data, the Internet of Things (IoT), and artificial intelligence (AI) technologies brings new challenges. Effectively integrating different technologies and ensuring data security and privacy are crucial issues that businesses and governments need to address. Data breaches and cyber-attacks not only cause economic losses but can also impact national security.

5.2. Future Development Trends in Logistics and Infrastructure

(1) Smart Logistics and the Internet of Things (IoT)

The development of smart logistics and IoT technology will significantly enhance logistics efficiency and management levels. Technologies such as sensors, RFID (Radio Frequency Identification), and GPS can enable real-time tracking and monitoring of goods, optimizing transportation routes and reducing losses and delays en route. Smart logistics systems can automatically analyze and process large volumes of data, providing accurate demand forecasts and supply chain optimization solutions.

(2) Green Logistics and Sustainable Development

Green logistics and sustainable development will become crucial directions for the future development of logistics and infrastructure. Promoting the use of new energy transport vehicles (such as electric trucks and hydrogen fuel cell vehicles), adopting eco-friendly packaging materials, and optimizing transportation routes can reduce carbon emissions and environmental pollution. Companies and governments should jointly promote the formulation and implementation of green logistics standards, facilitate the development of the circular economy, and achieve a win-win situation for both economic and environmental benefits.

(3) Public-Private Partnership and International Cooperation

Infrastructure construction and logistics development require significant capital investment and resource support, which cannot be achieved by the government or enterprises alone. Public-Private Partnership (PPP) models, by introducing private capital and management expertise, can improve the efficiency and service quality of infrastructure projects. International cooperation is also crucial; establishing multilateral cooperation mechanisms and free trade zones can

eliminate cross-border logistics barriers and promote the free flow of global trade.

(4) Digital Transformation and Blockchain Technology

Digital transformation will continue to drive the development of logistics and infrastructure. The application of blockchain technology can enhance the transparency and security of logistics processes, ensuring the authenticity and traceability of goods information through tamper-proof distributed ledgers. The use of digital platforms and smart contracts will further simplify transaction processes, improve logistics efficiency, and reduce operational costs.

(5) Artificial Intelligence and Automation

Artificial intelligence and automation technologies will play significant roles in the future of logistics and infrastructure. Autonomous vehicles, automated warehouses, and intelligent delivery robots will greatly improve logistics efficiency and reduce labor costs. AI algorithms can optimize transportation and inventory management, providing accurate demand forecasts and real-time decision support.

In conclusion, logistics and infrastructure face numerous challenges in international trade but also offer significant development opportunities. By applying smart logistics and IoT technologies, advancing green logistics and sustainable development, strengthening public-private and international cooperation, accelerating digital transformation and blockchain technology adoption, and utilizing AI and automation technologies, businesses and governments can jointly drive the innovation and upgrading of logistics and infrastructure, promoting the sustainable and healthy development of international trade.

6. Policy Recommendations

To better address the challenges faced by logistics and infrastructure in international trade and fully capitalize on future development opportunities, governments and enterprises need to adopt a series of policy measures and strategies. The following are recommendations for governments and enterprises.

6.1. The Role of Government

(1) Increase Infrastructure Investment

Governments should increase investment in transportation, information and communication, and energy infrastructure, particularly in the renewal of old infrastructure and the construction of new infrastructure. Through various financing methods such as public finance, government bonds, and Public-Private Partnerships (PPP), the funding for infrastructure construction can be ensured. Modernizing infrastructure can not only improve logistics efficiency but also promote economic growth and regional development.

(2) Optimize Cross-Border Logistics Policies

To simplify cross-border logistics processes, governments should optimize customs procedures, reduce tariff barriers, and coordinate with other countries to unify standards. By signing bilateral and multilateral trade agreements, trade barriers can be lowered, promoting the free flow of goods. Additionally, governments should enhance information sharing and cooperation in cross-border logistics to improve transparency and efficiency.

(3) Promote Green Logistics Development

Governments should formulate and implement policies and regulations that support the development of green logistics, such as encouraging the use of new energy transportation vehicles, promoting eco-friendly packaging materials, and

optimizing transportation routes. Providing tax incentives, financial subsidies, and other incentives can encourage enterprises to adopt environmentally friendly technologies and methods in logistics, reducing carbon emissions and environmental pollution.

(4) Support Technological Innovation and Digital Transformation

Governments should actively support technological innovation and digital transformation in the logistics and infrastructure sectors. By establishing special funds, providing research and development subsidies, and offering tax incentives, governments can encourage enterprises to research and apply smart logistics, the Internet of Things, and blockchain technology. Promoting the standardization of the logistics industry and encouraging the widespread application and promotion of these technologies is also essential.

(5) Strengthen International Cooperation

Governments should strengthen cooperation with other countries and international organizations to jointly promote the development of international logistics and infrastructure. Participating in the formulation and implementation of international standards can enhance the interconnectivity of global logistics networks. Furthermore, governments should enhance international cooperation in areas such as green logistics, smart logistics, and data security, sharing experiences and technologies to collectively address global logistics challenges.

6.2. Strategies for Enterprises

(1) Logistics Optimization and Supply Chain Management

Enterprises should enhance logistics optimization and supply chain management by adopting advanced logistics technologies and management methods to improve logistics efficiency and service levels. Implementing intelligent logistics systems can automate and smarten the logistics process. Optimizing inventory management and transportation scheduling can reduce logistics costs and increase the flexibility and responsiveness of the supply chain.

(2) Technological Innovation and Digital Transformation

Enterprises should actively promote technological innovation and digital transformation, utilizing technologies such as big data, the Internet of Things, artificial intelligence, and blockchain to enhance logistics management and operations. By building digital platforms, enterprises can achieve supply chain transparency and visualization. The adoption of smart contracts and automated equipment can simplify transaction processes, increasing logistics efficiency and reliability.

(3) Green Logistics and Sustainable Development

Enterprises should focus on green logistics and sustainable development, minimizing environmental impacts during the logistics process. The use of new energy transportation vehicles, eco-friendly packaging materials, and green warehousing technologies can reduce carbon emissions and energy consumption. Optimizing transportation routes and logistics networks can decrease empty loads and transportation distances, improving logistics efficiency.

(4) Strengthening Collaboration and Coordination

Enterprises should strengthen collaboration and coordination among all segments of the supply chain to form close partnerships. Sharing information and resources can improve overall supply chain efficiency and competitiveness. Participation in industry alliances and cooperation platforms can collectively promote advances in logistics technology and

management, enhancing the overall level of the industry.

(5) Focusing on Talent Development and Team Building

Enterprises should emphasize the cultivation of logistics and supply chain management talent and team building. By recruiting professional talent and conducting training and education, enterprises can improve employees' professional skills and management levels. Establishing a positive corporate culture and incentive mechanisms can enhance employees' sense of responsibility and belonging, increasing team cohesion and morale.

7. Conclusion

This study aims to explore the role of logistics and infrastructure in promoting international trade and propose corresponding policy recommendations and business strategies. Through a systematic analysis of the theoretical foundation, the key roles of logistics and infrastructure, the challenges faced, and future development trends, the following main conclusions were drawn:

First, logistics plays a crucial role in international trade. An efficient logistics system can significantly reduce transaction costs, improve trade speed and reliability, promote market connectivity and integration, support global supply chain management, drive economic growth and technological innovation, and address environmental and sustainability challenges. By optimizing logistics management and adopting advanced technologies, enterprises can enhance their competitiveness in the international market.

Second, infrastructure is an essential element supporting international trade. Modern transportation, information communication, and energy infrastructure can improve transportation and communication efficiency, promote market connectivity and integration, drive economic growth and technological innovation, enhance supply chain flexibility and resilience, and support the green economy and sustainable development. High-quality infrastructure is a guarantee for the smooth conduct of international trade.

Third, smart logistics and the Internet of Things, green logistics and sustainable development, public-private

partnerships and international cooperation, digital transformation and blockchain technology, artificial intelligence and automation will become important trends in the future development of logistics and infrastructure. Achieving optimization and upgrading of logistics and infrastructure requires close cooperation between governments and enterprises. Governments should formulate and implement supportive policies, provide funding and technical support, and guide enterprises in innovation and transformation. Enterprises, on the other hand, should enhance their competitiveness through management optimization, technological innovation, green development, and strengthened cooperation. The joint efforts of governments and enterprises will provide a solid foundation for the improvement of the global logistics system and the prosperity of international trade.

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