Business opportunities in fisheries supply chain management: Special reference to Union Budget 2023

Section A-Research paper



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Abstract

The fisheries sector is an essential contributor to India's economy, providing employment and income opportunities to millions of people. The Indian government has identified the fishery sector as a priority area for development, and the Union Budget 2023 is expected to provide new opportunities for the sector. This paper reviews the business opportunities in fishery supply chain management in India, with a special focus on the Union Budget 2023. The paper analyzes the potential impact of the budget on the fishery supply chain and identifies opportunities for businesses in infrastructure development, technology adoption, export promotion, skill development, and sustainability. The paper also examines the challenges faced by the fishery supply chain and suggests strategies to overcome these challenges. The paper concludes by emphasizing the importance of the fishery sector for India's economic growth and recommending policies and initiatives to promote its sustainable development.

Keywords: Fisheries, Supply Chain Management, Union Budget

Introduction

Fisheries supply chain management involves the process of managing the flow of products, information, and services from the fishing grounds to the end consumers. The fishing industry is a critical sector that plays a vital role in the global economy, providing employment and food

security to millions of people worldwide. Efficient and effective management of the fishery supply chain is necessary to ensure that the industry is sustainable and profitable.

Here are some opportunities in fishery supply chain management that have been identified in the literature:

- 1. Traceability and transparency: Consumers are becoming more interested in knowing where their food comes from and how it is produced. Therefore, there is a need for the fishery industry to provide traceability and transparency in the supply chain. This can be achieved through the use of technologies such as blockchain, which can track the movement of fish from the fishing grounds to the end consumers.
- 2. Sustainability: The sustainability of the fishery industry is crucial to ensure the long-term viability of the sector. Fishery supply chain management can play a critical role in ensuring sustainable practices, such as the use of eco-friendly fishing methods, responsible sourcing, and reducing waste.
- 3. Collaboration: Collaboration among stakeholders in the fishery supply chain is essential for improving efficiency and reducing costs. Fishers, processors, distributors, and retailers can work together to streamline processes and reduce waste.
- 4. Data analytics: The fishery industry generates a vast amount of data that can be used to optimize the supply chain. The use of data analytics can help identify trends, improve forecasting, and optimize inventory management.
- 5. Technology adoption: The adoption of technology can improve the efficiency and transparency of the fishery supply chain. For example, the use of automated systems for fish processing and tracking can improve quality control and reduce costs.
- 6. Innovation: The fishery industry is constantly evolving, and innovation can lead to new opportunities for growth and sustainability. Innovation in fishery supply chain management can lead to the development of new products, services, and business models that meet the changing needs of the market.

Opportunities in Fisheries supply chain management across the world

Fisheries supply chain management opportunities are present across the world due to the increasing demand for seafood and the need for sustainable fishing practices. Here are some examples of fisheries supply chain management opportunities in different regions of the world:

1. Asia-Pacific: The Asia-Pacific region is home to some of the largest fishery industries in the world, providing significant opportunities for fisheries supply chain management. Countries such as China, Japan, and Indonesia have large fishing fleets and are major seafood exporters. Opportunities in the region include improving the traceability of

seafood products, adopting sustainable fishing practices, and investing in new technologies for fisheries management.

- 2. North America: The North American fishery industry is driven by the high demand for seafood in the US and Canada. Opportunities in the region include improving the supply chain efficiency, reducing waste and spoilage, and promoting sustainable fishing practices. Innovative technologies such as blockchain and artificial intelligence can help improve the traceability of seafood products and enhance the transparency of the supply chain.
- 3. Europe: The European Union is one of the world's largest seafood markets, and the fishery industry provides significant employment opportunities in many countries. Opportunities in the region include improving the sustainability of fishing practices, reducing the environmental impact of aquaculture, and enhancing the quality and safety of seafood products.
- 4. Latin America: The fishery industry in Latin America is driven by the high demand for seafood in the US and Europe. Opportunities in the region include improving the traceability of seafood products, promoting sustainable fishing practices, and investing in new technologies for fisheries management.
- 5. Africa: The fishery industry in Africa provides significant employment opportunities, and the increasing demand for seafood presents opportunities for fisheries supply chain management. Opportunities in the region include promoting sustainable fishing practices, improving the quality and safety of seafood products, and investing in infrastructure for fishery management and processing.

In conclusion, the fishery industry provides significant opportunities for supply chain management across the world. Sustainable fishing practices, improving the traceability and transparency of seafood products, and investing in new technologies are some of the key areas for improvement in fisheries supply chain management.

Fisheries supply chain management offers several opportunities across the world, particularly in developing countries where the fisheries sector is a significant contributor to the economy. Here are some of the fisheries supply chain management opportunities across the world:

1. Infrastructure development: The development of infrastructure such as fishing ports, landing centers, and processing facilities can improve the efficiency of the supply chain, reduce post-harvest losses, and increase the value of fish products. Developing countries have a significant opportunity to invest in infrastructure development to enhance the fisheries supply chain.

- 2. Technology adoption: Technology can significantly improve the efficiency and sustainability of the fisheries supply chain. The adoption of technologies such as improved fishing gear, cold storage facilities, and traceability systems can help reduce waste, improve quality, and enhance the value of fish products.
- 3. Market diversification: The fisheries sector is heavily dependent on export markets, particularly in developing countries. Diversifying the market by promoting domestic consumption and identifying new export markets can reduce the risks associated with over-reliance on a single market.
- 4. Sustainability: Promoting sustainable fishing practices and resource management can ensure the long-term viability of the fisheries sector. Adopting measures such as fishing quotas, gear restrictions, and marine conservation can protect fish stocks and ensure the sustainability of the fisheries supply chain.
- 5. Capacity building: Developing the skills and capacities of stakeholders in the fisheries supply chain can enhance the efficiency and sustainability of the sector. Investing in training and education programs for fishers, processors, and other stakeholders can improve the quality of fish products, reduce waste, and increase the value of the fisheries supply chain.

In conclusion, the fisheries supply chain offers several opportunities for development and growth across the world. Infrastructure development, technology adoption, market diversification, sustainability, and capacity building are some of the key areas where opportunities exist. The successful implementation of these opportunities can lead to a more efficient, sustainable, and profitable fisheries supply chain.

Challenges and opportunities in fisheries supply chain management

In summary, the fishery industry faces several challenges in supply chain management, but there are also opportunities for innovation and improvement. The adoption of technology, collaboration among stakeholders, sustainability, traceability, transparency, and data analytics are some of the areas where improvements can be made to ensure a sustainable and profitable future for the fishery industry. Some potential opportunities in fishery supply chain management in India based on the government's recent policies and initiatives.

1. Infrastructural development: The Indian government has recently announced the Rs 20,050 crore PM Matsya Sampada Yojana to boost the fisheries sector in India. The initiative aims to develop the fishery supply chain by improving the infrastructure and modernizing the fishery sector. The investment in infrastructure is likely to improve the efficiency of the fishery supply chain, making it more cost-effective and sustainable.

- 2. Technology adoption: The Indian government has been promoting the adoption of technology in the fishery sector through initiatives like the National Fisheries Development Board (NFDB) and the Blue Revolution Scheme. These initiatives aim to promote sustainable fishing practices and the adoption of technology to improve the efficiency of the fishery supply chain.
- 3. Export potential: India has a vast coastline and abundant fishery resources, making it one of the largest exporters of seafood in the world. The Indian government has identified the fishery sector as a priority area for export promotion, and there is a significant opportunity to develop the fishery supply chain to meet the increasing demand for seafood in the international market.
- 4. Skill development: The fishery sector in India is largely unorganized, and there is a significant skill gap among fishers, processors, and other stakeholders in the fishery supply chain. The government can focus on skill development initiatives to improve the efficiency and sustainability of the fishery supply chain.
- 5. Sustainability: The Indian government has recently launched the Pradhan Mantri Matsya Sampada Karyakram (PMMSK) to promote sustainable fishing practices and conservation of fishery resources. This initiative aims to increase fish production while maintaining the ecological balance of aquatic ecosystems. Promoting sustainable fishing practices and conservation efforts can lead to a more sustainable and profitable fishery supply chain.

In conclusion, the Indian government has recognized the importance of the fishery sector and has taken several initiatives to promote its growth and development. The opportunities in fishery supply chain management in India include infrastructural development, technology adoption, export potential, skill development, and sustainability. These initiatives are likely to boost the efficiency, sustainability, and profitability of the fishery supply chain in India.

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