

# Optimizing Decision-Making in Global Supply Chains

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**Abstract.** The study explores advanced decision-making strategies within global supply chains, focusing on optimization models that enhance efficiency and resilience. By integrating data analytics with traditional management techniques, the research addresses critical challenges faced by multinational corporations. The findings provide insights into cost reduction and service level improvements, promoting sustainable practices in supply chain management.

**Keywords:** Supply Chain Optimization, Decision-Making, Data Analytics, Global Management, Sustainability

## Introduction

Global supply chains are the backbone of modern commerce, linking producers and consumers across continents. However, these complex networks face numerous challenges, including disruptions, inefficiencies, and escalating costs. Optimizing decision-making processes within these supply chains is crucial for maintaining competitiveness and sustainability. This study examines cutting-edge optimization models that leverage data analytics to enhance supply chain performance. By focusing on the integration of technology and management science, the research offers valuable insights into improving efficiency and resilience.

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