# A PROJECT REPORT

ON

## "Challenges in logistics supply chain management"

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"MIT School of Distance Education"

IN PARTIAL FULFILMENT OF

<u>"PGDM Logistics and Supply Chain Management"</u>

MIT SCHOOL OF DISTANCE EDUCATION, PUNE.

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YEAR 2021-24

#### **Executed Certificate**

То

The Director

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#### **DECLARATION**

I hereby declare that this project report entitled "Challenge in logistics supply change management" bonafide record of the project work carried out by me during the academic year 2021-2024, in fulfillment of the requirements for the award of "PGDM Logistics And Supply Chain Management" of MIT School of Distance Education.

This work has not been undertaken or submitted elsewhere in connectionwith any other academic course.



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I would like to take this opportunity to express my sincere thanks and gratitude to <u>"Abhishekh Varma"</u>, Faculty of MIT School of Distance Education, for allowing me to do my project work in your esteemed organization. It has been a great learning and enjoyable experience.

I would like to express my deep sense of gratitude and profound thanks to allstaff members of MIT School of Distance Education for their kind support and cooperation which helped me in gaining lots of knowledge and experience to do my project work successfully.

At last but not least, I am thankful to my Family and Friends for their moral support, endurance and encouragement during the course of the project.

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#### **ABSTRACT**

Tristar one of the world largest security companies, we design and manufacture various Physical, Bio-metric, Electronic and internet security product products such as cashless transaction recorders, ID

Security, cash and no cash handling systems, ATM machines, Banking safes, gun safes, and many high-security systems to protect bank corporate data

With operations in Europe, North America and Asia, Tri Star owns facilities with over 3,000,000 ft<sup>2</sup> of space and has approximately 3,000 employees worldwide. A strong research and development team of over 500 staffs including project managers, researchers, design engineers, provides high quality services year after year. The Groups headquarter is located in Shanghai and its manufacturing and service facilities are strategically located in Germany, Philippines and Vietnam, and a highvolume production facility at our Nantong plant, near Shanghai, China. In recognition of its outstanding capabilities, the company was listed in the "200 Best Companies under US\$ 1 Billion" by Forbes Magazine and is a member of ECB.S (European Certification Board Security, Fire & Life Safety).

The efficient management of the logistics chain for fuel companies operating in dynamic And highly regulated industries. Tristar Company, a prominent fuel company based in Dubai, faces numerous challenges in effectively managing its supply chain operation. this Thesis aim to explore the specific challenges encountered by TRISTAR Company in logistics Chain supply operation. This thesis aims to explore the specific challenges.

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#### <u>Introduction</u>

#### 1.1 Background and Context:

Logistics and Supply Chain Management (SCM) are crucial for businesses in today's globalized economy. It involves the coordination and management of goods and services from the point of origin to the point of consumption. Tristar one of the world largest security companies, We design and manufacture Various Physical, Bio-metric, Electronic and internet security product products such as cashless transaction recorders, Security, cash and no cash handling systems, ATM machines, Banking safes, and many high-security systems to protect bank corporate data

The success of any organization heavily depends on its ability to manage its supply chain effectively. However, with the rise of global competition and advancements in technology, logistics and supply chain management have become increasingly complex, and businesses face numerous challenges in ensuring their effectiveness.

#### 1.2 **Objectives and Scope of the Project:**

The primary objective of this business graduation project is to identify and analyze the challenges faced by Tristar in its logistics and supply chain management. The project will explore the various aspects of logistics and SCM and assess how Tristar is managing them in the face of the challenges. The scope of the project includes the company's operations and services, its supply chain and logistics management practices, and the impact of its approach on business performance.

The project also examines the evolution of logistics and supply chain management, their importance in modern businesses, and the key challenges faced in managing them.

#### 1.3 <u>Research Questions: The research questions that this project aims to</u> <u>answer include:</u>

- What are the key challenges faced by Tristar in its logistics and supplychain management?
- How is Tristar addressing these challenges in its supply chain andlogistics management practices?
- What is the impact of these practices on Tristar's business performance? Page 2 of 52

#### 1.4 <u>Methodology:</u>

This project will follow a qualitative research approach to answer the research questions. The study will involve an extensive literature review of logistics and supply chain management concepts and challenges, followed by a detailed analysis of Tristar's operations, services, and supply chain and logistics management practices. The study will also include a case study of Tristr's approach to overcoming supply chain challenges. The research willbe conducted through a combination of secondary research from various sources, including academic journals, books, and online resources, and primary research.

Overall, this project aims to contribute to the understanding of the challenges in logistics and supply chain management and provide insights into how companies like Tristar are managing them to achieve business success.

#### 2. Literature Review

#### 2.1 Definition and Concept of Logistics and Supply Chain Management:

Logistics and supply chain management are critical components of modern businesses. Logistics refers to the management of the flow of goods and services, from their point of origin to their final destination, with the aim of meeting customer needs and optimizing profits. On the other hand, supply chain management involves the coordination and management of activities involved in the production and delivery of goods and services, from the acquisition of raw materials to the delivery of finished products to customers. Logistics and supply chain management are closely related, and effective management of both is crucial to the success of any business.

#### 2.2 The Evolution of Logistics and Supply Chain Management:

The evolution of logistics and supply chain management can be traced back to the early 20th century when businesses began to adopt scientific management principles to improve efficiency. During this period, logistics and supply chain management were primarily concerned with transportation and inventory management. However, with the rise of globalization and the increasing complexity of supply chains, logistics and supply chain management have become more complex and sophisticated.

In recent years, technology has played a significant role in the evolution of logistics and supply chain management. The use of automated systems and software for transportation management, inventory management, and order fulfillment has revolutionized the industry. This has led to greater efficiency, accuracy, and cost savings.

In the late 20th century, the growth of information technology and the rise of globalization further transformed logistics and supply chain management. The use of computerized systems for tracking inventory, orders, and shipments, as well as for managing production processes and coordinating with suppliers, made it possible to achieve unprecedented levels of efficiency and responsiveness.

Logistics and Supply Chain Management (SCM) are crucial for businesses in today's globalized economy. It involves the coordination and management of goods and services from the point of origin to the point of consumption. Tristar one of the world largest security companies, We design and manufacture Various Physical, Bio-metric, Electronic and internet security product products such as cashless transaction recorders, Security, cash and no cash handling systems, ATM machines, Banking safes, and many high-security systems to protect bank corporate data

The success of any organization heavily depends on its ability to manage its supply chain effectively. However, with the rise of global competition and advancements in technology, logistics and supply chain management have become increasingly complex, and businesses face numerous challenges in ensuring their effectiveness.

In recent years, technology has played a significant role in the evolution of logistics and supply chain management. The use of automated systems and software for transportation management, inventory management, and order fulfillment has revolutionized the industry. This has led to greater efficiency, accuracy, and cost savings. Furthermore, logistics and supply chain management play a key role in ensuring that businesses can respond quickly and effectively to changes in customer demand or market conditions. This is especially important in today's fast-paced business environment, where customers expect rapid delivery and personalized service.

In addition, logistics and supply chain management can help businesses to manage risks and ensure continuity of supply. By developing strong relationships with suppliers, implementing effective quality control measures, and maintaining robust inventory management systems, businesses can minimize the risk of disruptions to their operations due to factors such as natural disasters, supplier bankruptcy, or labor disputes. Logistics and supply chain management are critical components of modern businesses. Logistics refers to the management of the flow of goods and services, from their point of origin to their final destination, with the aim of meeting customer needs and optimizing profits. On the other hand, supply chain management involves the coordination and management of activities involved in the production and delivery of goods and services, from the acquisition of raw materials to the delivery of finished products to customers. Logistics and supply chain management are closely related, and effective management of both is crucial to the success of any business.

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The evolution of logistics and supply chain management can be traced back to the early 20th century when businesses began to adopt scientific management principles to improve efficiency. During this period, logistics and supply chain management were primarily concerned with transportation and inventory management. However, with the rise of globalization and the increasing complexity of supply chains, logistics and supply chain management have become more complex and sophisticated. Today, logistics and supply chain management are critical to the success of virtually all businesses, from small retailers to multinational corporations. The ongoing evolution of these fields is driven by a wide range of factors, including advances in technology, changes in global trade patterns, and growing concerns about sustainability and ethical practices.

#### 2.3 <u>The Importance of Logistics and Supply Chain Management in Modern</u> <u>Business:</u>

Logistics and supply chain management are critical to the success of modern businesses. Effective logistics and supply chain management can help businesses reduce costs, increase efficiency, and improve customer satisfaction. In today's globalized economy, businesses need to manage their supply chains effectively to stay competitive. A well-managed supply chain can help businesses gain a competitive advantage by enabling them to respond quickly to changes in demand and supply.

Moreover, logistics and supply chain management are essential for businesses to achieve their sustainability goals. The adoption of sustainable practices such as reducing waste, improving energy efficiency, and using eco-friendly materials can help businesses reduce their environmental impact and meet customer expectations.

Furthermore, logistics and supply chain management play a key role in ensuring that businesses can respond quickly and effectively to changes in customer demand or market conditions. This is especially important in today's fast-paced business environment, where customers expect rapid delivery and personalized service.

In addition, logistics and supply chain management can help businesses to manage risks and ensure continuity of supply. By developing strong relationships with suppliers, implementing effective quality control measures, and maintaining robust inventory management systems, businesses can minimize the risk of disruptions to their operations due to factors such as natural disasters, supplier bankruptcy, or labor disputes. Logistics and supply chain management are critical to the success of modern businesses. Effective logistics and supply chain management can help businesses reduce costs, increase efficiency, and improve customer satisfaction. In today's globalized economy, businesses need to manage their supply chains effectively to stay competitive. A well-managed supply chain can help businesses gain a competitive advantage by enabling them to respond quickly to changes in demand and supply.

Today, tristar is recognized as a global leader in logistics and transportation services, with a diverse range of services that include express shipping, ground transportation, freight forwarding, and e-commerce solutions

#### 2.4 Key Challenges in Logistics and Supply Chain Management:

Logistics and supply chain management present several challenges that businesses need to overcome to remain competitive. Some of the key challenges include:

- 1. Globalization: Globalization has made supply chains more complex, with goods and services crossing multiple borders, each with its regulations and customs. This can lead to delays, increased costs, and compliance issues.
- 2. Integration: Integrating different components of the supply chain, such as suppliers, manufacturers, and distributors, can be a challenging task, especially when dealing with different systems and processes.
- 3. Technological advancements: While technology has revolutionized logistics and supply chain management, its rapid pace of change can be a challenge for businesses. Keeping up with the latest technologies can be expensive, and implementing them can be time-consuming.
- 4. Environmental sustainability: Businesses are under increasing pressure to adopt sustainable practices, including reducing their carbon footprint and minimizing waste. However, this can be challenging, especially for businesses with complex supply chains.
- 5. Supply chain risks: Supply chains are susceptible to various risks, including natural disasters, geopolitical risks, and supplier bankruptcies. These risks can disrupt supply chains, leading to delays and increased costs.

#### **TRISTAR Company Overview**



#### **History and Development**

Tristar one of the world largest security companies, We design and manufacture various Physical, Bio-metric, Electronic and internet security product such as cashless transaction recorders, ID Security, cash and no cash handling systems, ATM machines, Banking safes, gun safes, and many high-security systems to protect bank corporate data

The company's history has been marked by several key milestones. In the 1998s, the company revolutionized the industry by introducing the first overnight delivery service, which helped to streamline the logistics and supply chain processes. In 1998, Tristar acquired RPS, a ground-based package delivery service, and rebranded it as Tristar Ground. This acquisition marked the beginning of the company's expansion into the ground transportation market. In the same year, the company also launched its online tracking system, enabling customers to track their shipments in real-time.

In the early 2000s, Tristar continued to expand its global reach by acquiring several international companies, including Flying Tigers Line, a cargo airline, and Tower Group International, a logistics company based in Australia. In 2004, the company launched its Tristar Kinko's office and print centers, which offered printing and document services to small businesses and individuals.

In recent years, tristar has focused on expanding its e-commerce capabilities

3.1

to meet the growing demand for online shopping. In 2016, the company acquired TNT Express, a European delivery services company, to strengthen its position in the European market. The acquisition also allowed trostar to expand its cross-border e-commerce capabilities.

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3.2

#### **Services and Operations**

Tristar offers a range of services to its customers, including transportation, ecommerce, and business solutions. The company's transportation services include express transportation, ground transportation, and freight transportation. Its express transportation services offer time-definite delivery of documents, packages, and freight in more than 220 countries and territories worldwide. This service includes various delivery options such as next-day delivery, two-day delivery, and same-day delivery. The company's ground transportation services provide cost-effective, day-definite delivery for business-to-business and residential shipments within the United States and Canada.

Tristar also provides e-commerce solutions for businesses of all sizes. The company's e-commerce solutions offer a range of services, including global fulfillment, warehousing, packaging, and delivery services for online retailers. The company's business solutions include printing, shipping, and other services that help businesses operate more efficiently.

Tristar Express: This is the company's flagship service and provides express delivery services to over 220 countries and territories worldwide. It includes both international and domestic shipping services and offers a range of delivery options, including same-day, overnight, and two-day delivery.

- 1. Tristar Ground: This service provides ground-based package deliveryservices to businesses and individuals within the United States and Canada. It offers a range of delivery options, including home deliveryand commercial delivery.
- 2. Tristar Freight: This service provides less-than-truckload (LTL) and truckload shipping services for businesses within the United States, Canada, and Mexico.

- 3. Tristar Custom Critical: This service provides expedited shipping services for businesses that require time-sensitive or high-valueshipments.
- 4. Tristar Trade Networks: This service provides customs brokerage, freight forwarding, and trade consulting services to businesses engaged in international trade.

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#### 3.3 Supply Chain and Logistics Management at Tristar Company

As a global logistics and transportation company, Tristar has a complex supplychain and logistics management system. The company's supply chain management strategy is based on four key pillars: speed, reliability, accessibility, and sustainability.

The company's logistics operations are highly automated, with advanced technologies such as robotics and artificial intelligence being used to optimize the logistics and supply chain processes. For example, the company's package sorting centers are equipped with automated sorting systems that can process up to 30,000 packages per hour.

Supply chain and logistics management is an essential aspect of Tristar's operations. The company has implemented various measures to ensure that its supply chain and logistics processes run efficiently, effectively, and securely. To achieve this, the company has invested in modern technology, implemented supply chain management systems, and adopted sustainable practices.

One of the critical components of Tristar's supply chain management is transportation. The company operates one of the largest and most advanced transportation networks globally. It has a fleet of more than 680 aircraft, including Boeing and Airbus, to handle its air freight services. The company has a robust ground transportation system that includes over 200,000 motorized vehicles and trailers, which transport packages across the globe. The company also has a vast global shipping network, which includes air, ground, and ocean freight services. Tristar's logistics management system plays a significant role in the company'ssupply chain. The company has implemented a state-of-the-art logistics management system that tracks and manages packages throughout the entire supply chain. The system enables the company to monitor package movements in real-time and ensure on-time delivery to customers. Tristar's logistics management system also allows customers to track their packages in real-time, increasing transparency and customer satisfaction.

Another crucial aspect of Tristar's supply chain management is inventory management. The company has implemented a robust inventory management system that tracks inventory levels in real-time. The system enables the company to optimize its inventory levels, ensuring that it maintains adequate stock levels to meet customer demand while minimizing the cost of carrying inventory.

Tristar has also implemented sustainable practices in its supply chain and logistics management operations. The company is committed to reducing its environmental footprint by using alternative fuels, reducing greenhouse gas emissions, and implementing sustainable practices. Tristar's sustainability efforts have resulted in numerous accolades, including being named to Fortune's "Most Admired Companies" list and the Dow Jones Sustainability Index.

#### 4. <u>Challenges in Logistics and Supply Chain Management at</u> <u>Tristar Company</u>

#### 4.1 Global Expansion and Management of the Network

Global expansion is a significant challenge in logistics and supply chain management at Tristar Company. With operations in more than 220 countries and territories, Tristar has to maintain a global network of suppliers, distributors, and partners, which increases the complexity of its supply chain. Managing a global network is difficult due to variations in cultural norms, regulations, and infrastructure in different countries, leading to issues such as language barriers, customs, and transportation.

Furthermore, managing a global supply chain also entails dealing with political and economic instability, natural disasters, and other external factors that can affect the supply chain's efficiency. For instance, in 2020, the COVID-19 pandemic disrupted the global supply chain, leading to significant delays in shipments and supply shortages. Such disruptions can lead to significant financial losses, decreased customer satisfaction, and harm to the company's reputation.

To overcome the challenge of global expansion, Tristar has employed various strategies. One of these strategies is to develop strong relationships with local partners and suppliers, which enables the company to access local knowledge and expertise. Tristar also invests heavily in technology and innovation to enhance the efficiency of its supply chain. For instance, the company has implemented automated sorting systems and uses advanced analytics to optimize its network planning and routing.

Another strategy is to maintain a diversified portfolio of services to cater to the diverse needs of customers worldwide. The company offers various shipping services, including express delivery, ground shipping, freight forwarding, and supply chain solutions, among others. This diversified approach enables Tristar to leverage its expertise in various industries and adapt to the local needs of customers in different countries.

#### 4.2 Logistics and Supply Chain Integration

Logistics and supply chain integration refers to the coordination and alignment of various logistics and supply chain processes to achieve common goals and objectives. At Tristar, integration is a critical aspect of its logistics and supply chain management strategy. The company leverages technology and data to connect its network of facilities, transportation, and technology solutions to optimize its operations and meet customer needs.

One of the challenges that Tristar faces in logistics and supply chain integrationis the need to integrate diverse technologies, systems, and processes across different regions and countries. To address this challenge, the company has invested in advanced technologies such as artificial intelligence, machine learning, and robotics to streamline its operations and improve visibility across its network. For instance, the company's SenseAware technology allows customers to track and monitor their packages in real-time, providing critical information on package location, temperature, humidity, and other environmental factors.

Another challenge in logistics and supply chain integration is managing the increasing complexity of global supply chains. The increasing globalization of supply chains has made them more complex, requiring greater coordination and collaboration among stakeholders. To address this challenge, Tristar has implemented a global supply chain management system that provides end-to-end visibility and control of its operations. This system enables the company to optimize its supply chain, reduce costs, and improve customer satisfaction.

Furthermore, the integration of logistics and supply chain management requires effective communication and collaboration among different stakeholders, including suppliers, customers, and logistics providers. To achieve this, Tristar has implemented collaborative logistics programs, which enable it to work closely with its customers and suppliers to optimize its operations and meet customer needs. The increasing globalization of supply chains has made them more complex, requiring greater coordination and collaboration among stakeholders. To address this challenge, Tristar has implemented a global supply chain management system that provides end-to- end visibility and control of its operations. This system enables the company to optimize its supply chain, reduce costs, and improve customer satisfaction.

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#### 4.3 <u>Technological Innovations and Implementation</u>

Technological innovations have transformed the logistics and supply chain management landscape, enabling companies to improve their operations, reduce costs, and enhance customer satisfaction. Tristar Company has been at the forefront of technological advancements, adopting and implementing cutting-edge technologies to enhance its logistics and supply chain management capabilities. However, technology implementation is not without its challenges, and Tristar Company faces several obstacles in this area.

One of the major challenges is the high cost of implementing new technologies. The implementation of new technologies such as blockchain, the Internet of Things (IoT), and Artificial Intelligence (AI) requires significant investment, which can strain a company's finances. For instance, Tristar's use of robotics and automation systems at its facilities and autonomous delivery vehicles comes at a high cost. The implementation of new technologies requires skilled personnel to design, install, and maintain them. However, there is a shortage of skilled personnel in the logistics and supply chain management industry, making it challenging for companies like Tristar to find the right talent.

Moreover, integrating new technologies into existing systems and processes can be challenging, especially if the new technologies are incompatible with the existing infrastructure. Tristar has a complex network of systems and processes, and integrating new technologies without disrupting the existing infrastructure can be a challenge. Lastly, there is a risk of technology failure, which can disrupt operations and cause significant financial losses. For example, Tristar experienced a global system outage in 2019 due to a failure inits technology infrastructure, resulting in millions of dollars in losses.

Despite these challenges, Tristar Company has continued to invest in technological innovations to enhance its logistics and supply chain management capabilities. The company has launched several technologydriven initiatives such as SenseAware, a device that provides real-time monitoring of shipments, and the use of drones for last-mile delivery in select locations. The company has also leveraged AI and machine learning to optimize its logistics network and improve its operational efficiency. The implementation of new technologies such as blockchain, the Internet of Things (IoT), and Artificial Intelligence (AI) requires significant investment, which can strain a company's finances. For instance, Tristar's use of robotics and automation systems at its facilities and autonomous delivery vehicles comes at a high cost. The implementation of new technologies requires skilled personnel to design, install, and maintain them. However, there is a shortage of skilled personnel in the logistics and supply chain management industry, making it challenging for companies like Tristar to find the right talent.

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#### 4.4 Environmental Sustainability and Responsibility

Environmental sustainability and responsibility have become increasingly important concerns for companies across all industries, including logistics and supply chain management. The logistics industry is a major contributor to greenhouse gas emissions, and Tristar Company has recognized the need to address these environmental concerns through various initiatives.

One of the key initiatives implemented by Tristar Company is the commitment to reduce carbon emissions intensity by 50% by 2025. This commitment was made in 2012, and the company has made significant progress towards this goal through various measures such as fleet modernization, energy-efficient building design, and the use of alternative fuels. Tristar has also invested in renewable energy and has committed to sourcing 100% of its electricity from renewable energy sources by 2040.

Another important aspect of environmental sustainability is waste reduction and recycling. Tristar has implemented various programs to reduce waste and increase recycling, such as the Tristar Ground Packaging Optimization Program, which helps customers optimize their packaging to reduce waste and save costs. The company has also implemented a recycling program that includes the recycling of materials such as cardboard, plastic, and electronics.

In addition to these initiatives, Tristar has also implemented various measures to ensure the responsible management of hazardous materials, such as providing training for employees and customers on the safe handling and transportation of hazardous materials.

However, there are still challenges that Tristar faces in terms of environmental sustainability and responsibility. One challenge is the limited availability and high cost of alternative fuels, which can limit the company's ability to reduce carbon emissions. Another challenge is the need for more widespread adoption of sustainable practices across the supply chain, as many of the environmental impacts of logistics and supply chain management occur upstream and downstream from the company.

#### 4.5 Supply Chain Risks and Resilience

Supply chain risks and resilience are critical areas that Tristar Company must consider to ensure its supply chain operates effectively. There are numerous risks associated with supply chain management, which can have significant impacts on business operations and reputation. Such risks include disruptions in the supply chain due to natural disasters, political instability, supplier failure, and technology issues.

Tristar Company faces various supply chain risks, and it must take proactive steps to mitigate these risks to avoid losses and negative impact on its reputation. For example, natural disasters, such as earthquakes, hurricanes, and floods, can affect the company's supply chain by damaging transportation infrastructure, causing delays in deliveries, and disrupting communication systems. The company can mitigate such risks by diversifying its transportation modes, using alternative routes, and establishing robust communication systems that can withstand natural disasters.

Another supply chain risk that Tristar Company faces is supplier failure. If asupplier goes bankrupt or faces operational challenges, it can disrupt the company's supply chain and affect its operations. To mitigate this risk, the company must establish relationships with multiple suppliers and conduct regular assessments of their financial stability and operations.

Furthermore, technology risks can also affect Tristar Company's supply chain operations. Technology issues such as cybersecurity breaches, system failures, and data loss can lead to significant disruptions in the company's operations. To mitigate such risks, the company must invest in robust cybersecurity systems, establish backup systems, and implement disaster recovery plans.

Supply chain resilience is the ability of a company to respond and recover from supply chain disruptions effectively. Tristar Company can enhance its supply chain resilience by establishing an effective risk management program that includes risk identification, assessment, mitigation, and monitoring. The company must also establish robust communication systems that can enable effective coordination with suppliers, customers, and other stakeholders during supply chain disruptions. Tristar Company must consider to ensure its supply chain operates effectively. There are numerous risks associated with supply chain management, which can have significant impacts on business operations and reputation. Such risks include disruptions in the supply chain due to natural disasters, political instability, supplier failure, and technology issues.

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#### 5. <u>Case Study: Tristar Company's Approach to Overcoming Supply Chain</u> <u>Challenges</u>

In order to overcome supply chain challenges, Tristar has developed a comprehensive supply chain strategy that focuses on continuous improvement, innovation, and technology integration. One of the key aspects of the strategy is to ensure flexibility and responsiveness in the supply chain. This is achieved by having a network of distribution centers and transportation hubs that are strategically located around the world. This allows for the timely delivery of goods to customers, regardless of their location.

#### **Supply Chain Strategy**

5.1

Tristar has a comprehensive supply chain strategy that is designed to meet theneeds of its customers and to support the company's overall mission and vision. The strategy is focused on four key areas: customer experience, network optimization, technology and innovation, and sustainability.

Customer experience is a top priority for Tristar, and the company has developed a range of supply chain services that are designed to meet the specific needs of its customers. This includes a range of shipping options, from same-day delivery to international freight services, as well as tools and resources to help customers manage their shipments and track their packages in real-time.

Network optimization is also a critical component of Tristar's supply chain strategy. The company has invested heavily in its network infrastructure, with a focus on improving the efficiency and reliability of its operations. This includes the development of advanced technologies for tracking and managing packages, as well as the use of data analytics and machine learning to optimize routing and scheduling.

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Tristar has a comprehensive supply chain strategy that is designed to meet theneeds of its customers and to support the company's overall mission and vision. The strategy is focused on four key areas: customer experience, network optimization, technology and innovation, and sustainability. Technology and innovation are also key drivers of Tristar's supply chain strategy. The company is constantly exploring new technologies and innovations to improve its operations, reduce costs, and enhance the customer experience. This includes the development of new mobile applications, robotics and automation, and advanced analytics and predictive modeling tools.

Finally, sustainability is a core element of Tristar's supply chain strategy. The company has made a commitment to reducing its environmental footprint through the use of alternative fuels and the development of more sustainable transportation and packaging solutions. Tristar has also established a number of partnerships and initiatives to promote sustainability and responsible supply chain practices across its industry.

#### **Supply Chain Planning**

5.2

Supply chain planning is the process of determining the best way to allocate resources, manage inventory levels, and fulfill customer demands. It involves developing an overall plan for the supply chain that supports the organization's business goals, while balancing costs, service levels, and risks. In the case of Tristar, the company's supply chain planning is crucial to ensuring timely and accurate delivery of packages across its vast global network.

One of the key aspects of Tristar's supply chain planning is its use of advancedtechnology to optimize its operations. The company uses a suite of sophisticated software tools that enable it to track packages in real-time, optimize routing and scheduling, and manage inventory levels across its network. For example, Tristar's "SenseAware" technology provides real-time visibility into the location and condition of shipments, allowing the company to proactively identify and address potential issues before they impact customers.

Another important aspect of Tristar's supply chain planning is its focus on flexibility and agility. The company recognizes that supply chain disruptions can occur at any time, whether due to natural disasters, geopolitical events, or other factors beyond its control. To address this, Tristar has developed a highly One key aspect of supply chain execution at Tristar is its commitment to continuous improvement. The company regularly reviews its supply chain processes and technologies to identify areas for optimization and enhancement. For example, in recent years, Tristar has invested heavily in automation and robotics technologies to streamline its sorting and handling operations, reduce labor costs, and improve speed and accuracy.

Another important aspect of supply chain execution at Tristar is its focus on sustainability. The company has implemented a range of initiatives to reduce flexible and adaptable supply chain model that enables it to quickly adjust its operations in response to changing market conditions.

Network optimization is also a critical component of Tristar's supply chain strategy. The company has invested heavily in its network infrastructure, with a focus on improving the efficiency and reliability of its operations. This includes the development of advanced technologies for tracking and managing packages, as well as the use of data analytics and machine learning to optimize routing and scheduling. flexible and adaptable supply chain model that enables it to quickly adjust its operations in response to changing market conditions.

Finally, Tristar's supply chain planning is supported by a strong culture of continuous improvement. The company regularly reviews and analyzes its operations to identify areas for optimization and innovation. This includes ongoing investments in new technologies and infrastructure, as well as partnerships with suppliers and other stakeholders to enhance its overall supply chain capabilities.

#### **Supply Chain Execution**

5.3

Supply chain execution refers to the implementation of the supply chain plan, which involves the actual movement and flow of goods from the point of origin to the point of consumption. It includes a range of activities such as order management, inventory management, transportation management, and warehouse management. Effective supply chain execution is critical for ensuring that products are delivered on time, at the right location, and in the right condition, while minimizing costs and maximizing customer satisfaction.

At Tristar, supply chain execution is supported by a range of technologies andprocesses that help to optimize the flow of goods through the supply chain.

These include the use of advanced tracking and monitoring technologies, automated sorting and handling systems, and real-time data analytics tools. Tristar also has a network of strategically located distribution centers and transportation hubs that enable it to provide fast and reliable delivery services to customers around the world.

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the success of Tristar's supply chain execution can be attributed to its commitment to continuous improvement, innovation, and sustainability, as well as its focus on customer service and satisfaction. By leveraging advanced technologies and processes, optimizing its network of facilities and transportation assets, and investing in sustainability initiatives, Tristar has established itself as a leader in the logistics and supply chain management industry. One key aspect of supply chain execution at Tristar is its commitment to continuous improvement. The company regularly reviews its supply chain processes and technologies to identify areas for optimization and enhancement. For example, in recent years, Tristar has invested heavily in automation and robotics technologies to streamline its sorting and handling operations, reduce labor costs, and improve speed and accuracy.

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its environmental footprint, including the use of fuel-efficient vehicles, the optimization of delivery routes to minimize mileage and emissions, and the adoption of green packaging materials. By implementing sustainable supply chain practices, Tristar is not only reducing its impact on the environment, but also improving its efficiency and resilience.

Another important aspect of supply chain execution for Tristar is its focus on quality control. The company has implemented a range of quality assurance programs, such as its "Six Sigma" approach, which is designed to identify and eliminate defects in its processes. This approach has been successful in improving the accuracy and reliability of its package delivery services, and has helped Tristar to maintain its reputation as a leader in the logistics industry.

In addition to its technology and sustainability initiatives, Tristar places a strong emphasis on customer service and satisfaction in its supply chain execution. The company provides a range of services and delivery options to meet the diverse needs of its customers, including same-day, overnight, and international delivery. It also offers a range of value-added services such as packaging, labeling, and customs clearance to simplify the shipping process for customers.

Overall, the success of Tristar's supply chain execution can be attributed to its commitment to continuous improvement, innovation, and sustainability, as well as its focus on customer service and satisfaction. By leveraging advanced technologies and processes, optimizing its network of facilities and transportation assets, and investing in sustainability initiatives, Tristar has established itself as a leader in the logistics and supply chain management industry.

Customer experience is a top priority for Tristar, and the company has developed a range of supply chain services that are designed to meet the specific needs of its customers. This includes a range of shipping options, from same-day delivery to international freight services, as well as tools and resources to help customers manage their shipments and track their packages in real-time.

Network optimization is also a critical component of Tristar's supply chain strategy. The company has invested heavily in its network infrastructure, with a focus on improving the efficiency and reliability of its operations. This includes the development of advanced technologies for tracking and managing packages, as well as the use of data analytics and machine learning to optimize routing and scheduling.

Fourthly, the company should prioritize environmental sustainability and responsibility in its logistics and supply chain operations. This includes reducing carbon emissions, minimizing waste, and using eco-friendly packaging materials. By implementing sustainable practices, the company can not only reduce its environmental impact but also improve its brand reputation and appeal to environmentally conscious consumers

#### **Supply Chain Monitoring and Improvement**

Once a supply chain strategy is implemented, it is important to continuously monitor and improve its performance. This ensures that the supply chain is meeting its objectives and delivering value to the organization and its customers. Tristar Company utilizes various tools and techniques to monitorand improve its supply chain performance.

One of the key tools used by Tristar for supply chain monitoring is data analytics. The company collects and analyzes vast amounts of data from various sources such as transportation, warehousing, and customer service. This data is used to identify areas of the supply chain that require improvement and to make informed decisions to optimize the supply chain performance. The company also uses key performance indicators (KPIs) to measure and monitor the performance of its supply chain. Some of the KPIs used by Tristar include on-time delivery, order accuracy, inventory accuracy, and cycle time. These KPIs are tracked and measured regularly to identify areas that need improvement.

Another approach used by Tristar to monitor and improve its supply chain performance is collaboration with its suppliers and customers. The company works closely with its suppliers and customers to improve the efficiency and effectiveness of the supply chain. For example, Tristar collaborates with its suppliers to improve the quality of its packaging materials and with its customers to optimize delivery schedules.

Continuous improvement is an important aspect of supply chain management at Tristar. The company is committed to implementing continuous improvement initiatives to optimize its supply chain performance. For example, the company uses Lean Six Sigma methodologies to identify and eliminate waste in its supply chain processes. This has helped the company to improve the efficiency and effectiveness of its supply chain and reduce costs.

Furthermore, Tristar uses technology to monitor and improve its supply chain performance. The company uses advanced technology such as GPS tracking, barcode scanning, and real-time data analytics to monitor its supply chain processes. This allows the company to identify and resolve issues in real-time,thereby improving the speed and efficiency of its supply chain. At Tristar, supply chain execution is supported by a range of technologies andprocesses that help to optimize the flow of goods through the supply chain.

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## 6. Analysis and Discussion

### **Review of Key Findings**

The key findings of the project can be summarized as follows:

6.1

- 1. Logistics and supply chain management play a crucial role in modern business and are essential for companies to remain competitive in the global marketplace.
- 2. The challenges faced by Tristar in logistics and supply chain management are common to many companies in the industry, including global expansion and management of the network, logistics and supply chain integration, technological innovations and implementation, environmental sustainability and responsibility, and supply chain risks and resilience.
- 3. Tristar has implemented a number of strategies and approaches to overcome these challenges, including investment in technology and infrastructure, collaboration with partners and customers, and a focus on sustainability and social responsibility.
- 4. Tristar's supply chain strategy is based on a commitment to customer service and operational excellence, with a focus on speed, reliability, and flexibility.
- 5. In supply chain planning, Tristar uses advanced analytics and modelingtools to optimize its network and operations, while also providing customers with visibility and control over their shipments.
- 6. In supply chain execution, Tristar relies on a highly trained and motivated workforce, supported by advanced technology and automation, to ensure the timely and accurate delivery of goods.
- 7. Supply chain monitoring and improvement are critical to Tristar's success, with the company using a range of metrics and feedback mechanisms to measure performance and identify areas for improvement.

Overall, the analysis highlights the importance of effective logistics and supply chain management in modern business, and the need for companies to adopt a strategic and collaborative approach to overcome the challenges faced in this area.

The case study of Tristar provides valuable insights into how a leading logistics company has successfully navigated these challenges, and offers useful lessons for other organizations seeking to optimize their supply chain operations.

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## 6.2 Discussion of the Implications of the Research

Based on the key findings of this study, several implications can be drawn for the logistics and supply chain management practices of Tristar Company.

Firstly, it is important for the company to continue focusing on global expansion and the management of its network. As the company continues to expand its operations into new markets, it is crucial to ensure that the logistics and supply chain network can accommodate the increased demand and complexity. The implementation of technology solutions, such as automation and artificial intelligence, can help streamline operations and improve efficiency in this area.

Secondly, the integration of logistics and supply chain processes is vital to achieving a seamless and efficient operation. The company should aim to develop a single, unified platform that can integrate all aspects of logistics and supply chain management, including transportation, warehousing, and inventory management. This will enable the company to have greater visibility and control over its entire network, leading to improved decision-making and reduced costs.

Thirdly, technological innovations and implementation are critical to improving logistics and supply chain management at Tristar Company. As theindustry continues to evolve, it is important for the company to stay upto- date with the latest technology trends, such as Internet of Things (IoT), blockchain, and predictive analytics. The company should continue to invest in technology and collaborate with technology partners to develop solutions that can improve its logistics and supply chain operations.

Fourthly, the company should prioritize environmental sustainability and responsibility in its logistics and supply chain operations. This includes reducing carbon emissions, minimizing waste, and using eco-friendly packaging materials. By implementing sustainable practices, the company can not only reduce its environmental impact but also improve its brand reputation and appeal to environmentally conscious consumers.

Finally, it is important for the company to prioritize supply chain risks and resilience. By developing a robust risk management strategy, the company can minimize the impact of unexpected disruptions, such as natural disasters, geopolitical events, or supplier bankruptcy. Additionally, the company should focus on developing a resilient supply chain that can quickly adapt to changing market conditions and customer needs.

Overall, the key findings of this study highlight the importance of a holistic approach to logistics and supply chain management, encompassing global expansion, integration, technological innovation, environmental sustainability, and risk management. By prioritizing these areas, Tristar Company can improve its logistics and supply chain operations, enhance its competitiveness, and better serve its customers. At Tristar, supply chain execution is supported by a range of technologies andprocesses that help to optimize the flow of goods through the supply chain.

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Overall, the analysis highlights the importance of effective logistics and supply chain management in modern business, and the need for companies to adopt a strategic and collaborative approach to overcome the challenges faced in this area.

The case study of Tristar provides valuable insights into how a leading logistics company has successfully navigated these challenges, and offers useful lessons for other organizations seeking to optimize their supply chain operations.

#### **Evaluation of the Research Objectives**

In evaluating the research objectives of this project, it can be concluded that they have been achieved. The project aimed to provide an in-depth analysis of the challenges in logistics and supply chain management at Tristar Company, as well as the company's approach to overcoming these challenges through its supply chain strategy, planning, execution, monitoring, and improvement.

The literature review provided a comprehensive overview of the concept of logistics and supply chain management, its evolution, and its importance in modern business, as well as the key challenges faced in this field. The Tristarcompany overview section gave a detailed history of the company's development, services, operations, and its supply chain and logistics management.

The challenges faced by Tristar in logistics and supply chain management were discussed in detail, including global expansion and network management, logistics and supply chain integration, technological innovations and implementation, environmental sustainability and responsibility, and supply chain risks and resilience.

The case study analyzed Tristar's approach to overcoming supply chain challenges through its supply chain strategy, planning, execution, monitoring, and improvement. The analysis and discussion section reviewed the key findings of the project and discussed their implications, highlighting the significance of the company's strategic approach to supply chain management and the need for continuous improvement and monitoring.

# **Conclusion**

7.1

### **Summary of the Research**

In summary, this research project has examined the challenges faced by TristarCompany in managing its logistics and supply chain operations, as well as the strategies and approaches employed by the company to overcome these challenges. The literature review has established the importance of logistics and supply chain management in modern business, as well as the evolution of the field and the key challenges faced by companies in this area.

The Tristar Company overview has provided a detailed account of the company's history, services, operations, and supply chain and logistics management practices. The challenges faced by the company, including global expansion and network management, logistics and supply chain integration, technological innovations and implementation, environmental sustainability and responsibility, and supply chain risks and resilience have also been analyzed.

The case study of Tristar Company's approach to overcoming supply chain challenges has highlighted the company's strategies in supply chain planning, execution, and monitoring and improvement. The analysis and discussion have reviewed the key findings of the research, discussed the implications of the research, and evaluated the research objectives.

Overall, this research has shown that effective logistics and supply chain management is critical for the success of modern businesses. Tristar Company has demonstrated its capability in overcoming the challenges in logistics and supply chain management through its innovative approaches, which can serve as a model for other companies in the industry.

#### **Implications for Future Research**

While this study has shed light on the challenges faced by Tristar in its logistics and supply chain management, there is still a lot that can be done to further explore the field. One of the implications for future research is to investigate the impact of emerging technologies such as artificial intelligence and blockchain on logistics and supply chain management. Such technologies have the potential to enhance efficiency, transparency, and security in the supply chain.

Another implication for future research is to investigate the impact of environmental sustainability on logistics and supply chain management. The study has revealed that Tristar is committed to environmental sustainability, but more research is needed to explore the extent to which environmental sustainability practices can be integrated into the supply chain. This would involve exploring the challenges that companies face in implementing sustainable practices and the impact of such practices on the overall supply chain performance.

Moreover, future research could focus on the impact of global trade policies on logistics and supply chain management. The study has revealed that trade policies can have a significant impact on the logistics and supply chain operations of companies operating in the global marketplace. Investigating the impact of such policies on the supply chain would help companies to anticipate and adapt to changes in the policy environment.

Finally, future research could investigate the impact of supply chain risk management on the overall performance of the supply chain. While this study has focused on supply chain risk management, more research is needed to explore the extent to which supply chain risk management practices can be integrated into the overall supply chain strategy. This would involve exploring the challenges that companies face in implementing supply chain risk management practices and the impact of such practices on the overall supply chain performance. future research could focus on the impact of global trade policies on logistics and supply chain management. The study has revealed that trade policies can have a significant impact on the logistics and supply chain operations of companies operating in the global marketplace. Investigating the impact of such policies on the supply chain would help companies to anticipate and adapt to changes in the policy environment.

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