

A Study on Impact of Mobility Solutions in Logistics Industry

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Abstract— An important part of supply chain management and international trade is played by the logistics sector. Mobility solutions have fundamentally altered the way logistics operations are carried out as a result of technological advancements. This article's goal is to examine how mobile solutions have affected the logistics sector, with a particular emphasis on how those innovations have increased productivity, efficiency, and transparency. The study also looks at potential future trends in the uptake of these technologies as well as the difficulties and obstacles to the use of mobility solutions in logistics operations. Businesses may improve operational efficiency, cut expenses, and eventually maintain their competitiveness in a market that is changing quickly by comprehending the role that mobility solutions play in logistics.

Indexed Terms- Mobility Solutions, Automation, Logistics Sector.

I. INTRODUCTION

Because it makes it easier to move commodities from one location to another, the logistics sector is vital to the global economy. In the logistics sector, there is a growing need for creative mobility solutions due to the increased need for quicker and more effective products transportation. We examine the many mobility options that are currently in use in the logistics sector in this study. such as mobile devices, drones, and autonomous cars Uses.

We examine the advantages and difficulties of these technologies as well as how they affect the delivery and transportation of goods. In addition, we will investigate how new technologies like blockchain and artificial intelligence might affect mobility solutions in the logistics sector in the future.

We intend to provide useful insights for logistics organizations trying to remain ahead in a quickly changing market by learning more about these

technologies and how to use them to improve efficiency and optimize operations.

II. OBJECTIVE OF THE STUDY

1. Assessing how well the mobility solutions now in use in the logistics sector increase customer happiness and efficiency.
2. To gauge how mobility solutions affect the logistics industry's ability to optimize operations and save expenses associated with transportation.
3. To examine how supply chain visibility and logistics procedures might be made more efficient by utilizing mobile devices, GPS, and other digital tools.
4. To evaluate how much customer loyalty and satisfaction are attained when cutting- edge mobility solutions are integrated into logistical processes.
5. In order to help logistics organizations embrace and integrate mobility solutions into their current infrastructure, it is important to identify potential obstacles and constraints.

To offer suggestions and practical information to logistics companies aiming to improve their competitiveness by implementing innovative mobility solutions.

III. SCOPE OF STUDY

The primary goal of the study is to identify the variables that impact Mobility Solutions' performance at Logistics Ind. It indicates how much a company can automate and modify its logistics operations.

The investigation determined the different actions that the company needs to take in order to enhance the features of Indus Mobility Solutions.

IV. LITERATURE REVIEW

Kaizen

The doctrine of Kaizen is a Japanese theoretical application that refers to continual improvement to achieve better results repeatedly. According to Kaizen, improvement in productivity in any sector is a gradual and continuous process that should be undertaken over time to allow the organization to adjust and allow the change to be understood by the stakeholders. This theory applies to the development of mobility solutions in logistics because it helps understand the evolution of these solutions, especially with the inflow of innovative technology in logistics and the urge to have better solutions for better delivery of services. It helps to evaluate the framework strategically and critically within which technological solutions in the IoT have developed in logistics. It helps to understand the value of different stakeholders, their satisfaction, and their inputs in developing solutions that continually improve logistics and supply chain for key commodities worldwide.

The Stakeholder Theory

The stakeholder theory posits that many people with different interests affect the operations of any business unit that must be satisfied for the business units to operate efficiently and effectively. The stakeholder theory is drawn from the perception that every person is interested in the business if the business affects them or affects the business in one way or the other. Ensuring the satisfaction of every stakeholder is important in the development of a business and satisfaction of its market and potential.

The Actor-network theory (ANT)

The ANT defines the existence of everything in the social and natural worlds and asks interconnected through several types of complexes and aligned relationships. Everything in this system can be affected by factors internally or externally, forming a complex relationship between the variables within the ecosystem. The forces between people in a social system do not exist independently, meaning people determine what relationships and interactions they

have within their social system. In logistics, customers' influence each other through different media, making businesses recognize trends and demands from the customers, thus offering them specific services to meet their demands.

The social construction of technology (SCOT).

This theory argues that technology does not determine how humans act. It argues that human beings and their actions determine the advancement and development in technology because people developing these technologies only respond to the market needs and trends (Dhamale et al., 2017).

Proponents of this theory further argued that the market determines innovation and technological development rather than technological development determining how people act. Therefore, the adoption of technology in any sector depends largely on how people within that sector behave towards technology and perceive its role within the sector.

V. PROBLEM STATEMENT

Advances in technology and logistics mean that technology can be used even more to improve logistics and supply chain management in organizations. However, the researched literature in this area is diverse and not related to increasing logistics and supply chain mobility. This research problem is important because obtaining such information about the logistics impact of mobility solutions, especially technology and the Internet of Things, will help logistics companies inform their logistics and transportation options for goods and services.

In recent years, logistics companies have focused on various elements including cost reduction, revenue maximization, customer service and customer satisfaction. There has also been even more investment in automation and monitoring of services to keep customers happy and companies up to date with their product. The insurance sector is also involved more than before, especially with insurance of goods in transit traffic, increasing especially in world trade. This development has been made possible by the development of logistics and supply chain technology, which often receives less attention in research and analysis. This research focuses on

understanding the role of mobility solutions, especially technology-based solutions, in improving logistics and supply chain efficiency and functionality.

VI. RESEARCH METHODOLOGY

Research Design: Here, we have applied a qualitative approach to this investigation. We can test cause-and-effect linkages with the help of theories. Secondary data were the sources that we used for this study.

- For the study's objectives, secondary data is gathered from journals, websites, research papers, and corporate records.
- Data Collection Method: A variety of journals, blogs, research papers, and company records are examined in order to gather secondary data. Comparative analysis has been done on the collected data.

Data Collection Instrument:

- Journals
- Research Papers
- Online platform.

VII. FINDINGS

1. Better efficiency: Mobility solutions in the logistics industry have been found to significantly improve operational efficiency. By implementing mobile technology such as GPS tracking, real-time updates and mobile tools, logistics companies can streamline their processes and reduce unnecessary delays.
2. Cost savings: The use of mobility solutions in the logistics industry has also shown cost savings. By optimizing routes, reducing fuel consumption and minimizing idle times, logistics companies can reduce their operating costs.
3. Increased customer satisfaction: Mobility solutions in the logistics industry play a key role in improving customer satisfaction. Logistics companies can provide a more transparent and responsive service to their customers by providing real-time updates on shipment status, allowing customers to track their orders and facilitating communication between customers and managers.
4. Increased transparency and visibility: Mobility solutions for the logistics industry increase

visibility and transparency throughout the supply chain. By tracking shipments in real time, monitoring driver performance, and analyzing data on delivery times and routes, logistics companies can optimize their operations and make more informed decisions.

Improved security and compliance: Mobility solutions for the logistics sector assist businesses in making sure that rules and industry standards are followed.

Logistics organizations can enhance safety procedures and lower the likelihood of accidents by putting in place elements like electronic logging devices and driver behavior monitoring. Overall, the findings demonstrate that mobility solutions significantly affect the logistics sector by raising customer happiness, decreasing costs, enhancing efficiency and transparency, raising compliance and security, and so on.

CONCLUSION

The Results of the Research Point to a Few Important Interfaces. The logistics sector relies heavily on mobility. The sector witnesses a tremendous amount of shipment and person transportation every day. A proficient package handling system is essential to an effective logistics organization. Mobility solutions via apps and devices seem like a dependable option for an industry that is always changing because they have the potential to be very effective in guaranteeing accurate data collection and continuous, real-time information flow. Furthermore, the transition to a mobility structure indicates speedier and more dependable fleet administration and logistics systems overall.

That is, the optimal result comes from the impact of mobility solutions on traditional logistics. Mobility is rapidly transforming the logistics sector, replacing the manual operations of the past with automation that affects workflows and standardized processes. Whether it is for cargo, freight transportation, logistics services, or freight documentation, mobility can be a great asset to the logistics sector

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