

WHY CUSTOMS SECURITY AND LOGISTICS ARE A GLOBAL CHALLENGE

The customs security and logistics sectors are vital to global trade but face significant challenges in maintaining the security and efficiency of supply chains. As the volume of goods transported across borders increases, traditional inspection and monitoring methods are becoming less effective. This is underscored by a 26% rise in supply chain security breaches from 2022 to 2023, which highlights the growing threat of cyberattacks and the urgent need for enhanced cybersecurity measures 1. The complexity of modern logistics, coupled with the rising risks of smuggling, terrorism, and other illegal activities, demands more advanced solutions to safeguard the integrity of international trade. To address these challenges, it is essential to adopt digital solutions and advanced technologies to enhance customs processes, ensure compliance, and secure the supply chain against diverse threats.



KEY STATISTICS



The global logistics market is projected to reach



by 2025, highlighting the sector's vital role in the global economy.2



In 2023. Dubai Trade registered a record

transactions, marking a

increase from the previous year, with nearly half related to clearance and border controls. 3



Successfully implementing Al-enabled supply-chain management has enabled early adopters to improve

logistics costs by

15%

inventory levels by

and service levels by 65%

compared with slower-moving competitors.4

THE DUBAL CONTEXT

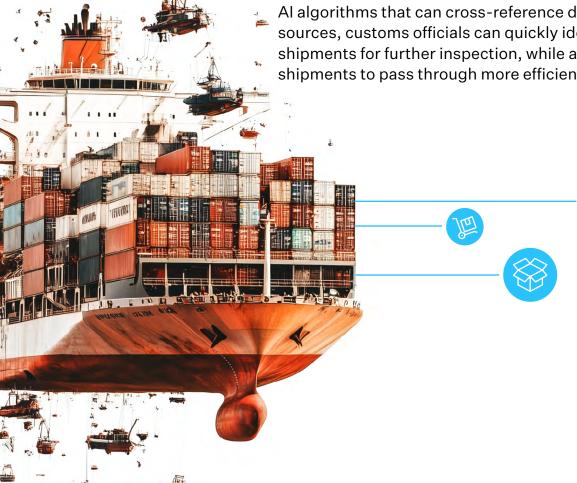
Dubai, as one of the world's leading trade hubs, is heavily reliant on efficient, secure logistics and customs operations. The strategic location of Dubai, bridging East and West, makes it a crucial point for international trade, which also presents challenges in maintaining efficient customs operations while ensuring security. Dubai Customs has launched the Siyaj (Fence) initiative, which is the first integrated 24/7 control system globally. This system employs advanced technologies, drones, and rapid intervention teams to enhance border security and facilitate trade. One of the primary challenges is managing the sheer volume of goods, as evidenced by Dubai **Customs processing over 30.4 million transactions in** 2023 alone⁵. This high volume necessitates advanced technological solutions to maintain operational excellence and ensure compliance with international standards.



AI'S ROLE IN ADDRESSING THESE CHALLENGES

To maintain its competitive edge and ensure the integrity of its trade routes, Dubai is increasingly adopting Al-driven solutions to enhance logistics and customs security. The Dubai authorities are piloting Al systems that monitor and analyse vast amounts of data from shipping manifests, cargo movements, and trade transactions. Al algorithms are capable of automatically identifying potential threats such as weapons, explosives, and other prohibited items by classifying objects within X-ray images into predefined categories. These systems are designed to detect anomalies and potential security threats in real time, such as unusual shipping routes or discrepancies in customs declarations.

Al is also being utilised to streamline customs procedures and reduce the time required for inspections. By leveraging Al algorithms that can cross-reference data from multiple sources, customs officials can quickly identify high-risk shipments for further inspection, while allowing low-risk shipments to pass through more efficiently.





THE IMPACT OF USING AI FOR DUBAI

The integration of AI into Dubai's logistics and customs operations is significantly enhancing the city's ability to manage and secure its trade routes. The use of AI-driven monitoring and predictive analytics tools is being used to improve detection of security threats and more efficient customs processes. As a result, Dubai will be able to maintain its position as a leading global trade hub, offering a secure and efficient environment for international commerce. Additionally, AI can help to reduce logistics costs by up to 15% and increase the efficiency of Dubai's trade operations. These advancements enhance Dubai's status as a global trade hub and help ensure that its logistics and customs processes remain secure and resilient in the face of evolving challenges.

AI can help to reduce logistics costs by 15%

and increase the efficiency of Dubai's trade operations.

CITATIONS

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- ² Strategy& PwC, "Modernizing Logistics," www.strategyand.pwc.com/m1/en/strategic-foresight/sector-strategies/transport-logistics-management/modernizing-logistics.html, accessed 2024.
- ³ Dubai Trade, "300 Million Transactions Milestone," <u>www.dubaitrade.ae/en/news-announcements/dubai-trade/dubai-trade-surpasses-300-million-transactions</u>, accessed 2024.
- ⁴ McKinsey & Company, "Al in Supply Chain Revolution," www.mckinsey.com/industries/metals-and-mining/our-insights/succeeding-in-the-ai-supply-chain-revolution, accessed 2024.
- ⁵ WAM, "Dubai Customs Processing Report," www.wam.ae/article/blaoqfr-dubai-customs-successfully-processed-over-304, accessed 2024.

