

A Methodology for the Redesign Supply Chains in the Context of Global Peacekeeping Operations

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Abstract

Global Peacekeeping Operations are challenging worldwide. There are currently several active operations, which are planned, managed and supplied by the existing centers located in Europe. Due to the context always being within a humanitarian condition, the challenges encountered in the supply chain can be greater than the conventional logistics of the business sector. For this reason, it is necessary to study the permanent and current demands and analyze possibilities for improvement in order to have greater efficiency, mainly, in the supply of final destinations. This work studies the factors with the highest degree of demand determination in humanitarian logistics, so that the relevance and possible location to host an additional warehouse is evaluated, redistributing the current demand, which proposes a faster and more efficient supply chain.

Keywords

Supply chain design, humanitarian logistics, location theory, multi-criteria decision, peacekeeping operations.

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Biographies

Jaqueline Ferronato is International Relations professional with diverse experience in Supply Chain across multiple countries. She holds a Master degree in Supply Chain Management from the Open University of Catalonia, Spain, and a Bachelor Degree in International Relations from Unicuritiba, Brazil. Her expertise mainly concerns fostering international partnerships, optimizing global logistics, and ensuring seamless cross-border operations.

Jairo R. Montoya-Torres is a Full Professor and Director of Research and Faculty Development at the School of Engineering at Universidad de La Sabana, Colombia. He holds a PhD in industrial engineering from Ecole des mines de Saint-Etienne, France. He has been invited professor at several universities, including MIT Center for Transportation and Logistics, Adelphi University, Open University of Catalonia, Tecnun Universidad de Navarra, Univesité Gustave Eiffel, among other. His research interests include design and optimization of supply chains, sustainable logistics, urban transportation and operations scheduling.