

Risk Assessment in the Logistics Outsourcing process: Decision-Making Tool

Jabir Arif

Equipe de recherche Modélisation et Optimisation des Systèmes Industriels et Logistique
Ecole Nationale des Sciences Appliquées (ENSA)
Université Abdelmalek Essaâdi
Tétouan, Morocco
arif.jabir@gmail.com

Imane IBN EL FAROUK

Laboratoire d'Etudes et de Recherches en Sciences Economiques et de Management
UNIVERSITE CHOUAIB DOUKALLI
ENCG
EL JADIDA, MOROCCO
Imane-ibn-el-farouk@outlook.com

Fouad Jawab

Laboratoire de Management International, Techniques de Décision et Logistique
Université Sidi Mohamed Ben Abdellah
Fez, Morocco
jawabf@gmail.com

Abstract

This paper presents an application of risk matrix model in the field of logistics outsourcing. This application addresses organizational risks assessment in the logistics outsourcing process and allow their prevention. The objective of this paper is to contribute to the development of a decision-making tool in measure to take into account the various parameters of the projects of outsourcing. This tool proposes an approach allowing to model the various phases of the process of outsourcing of the logistics while integrating the risk management. In a very pragmatic way, this work aims to model the reality of the outsourcing of the logistic activities. Our purpose will be thus no to propose new modes of piloting of supply chains, but a frame of analysis and modelling capable of explaining better the industrial reality regarding the risks of outsourcing of the logistic activities. The relevance matrix model is applied to promote risk analysis and management. Its aim is risk prioritization through the determination of an organization's critical risks. A case study of this application was developed using real data from the mass-market retailing to show that this model has a strong practical and provides a basis for risk management.

Keywords

Risk matrix model, logistics outsourcing, decision-making tool, risk management, mass-market retailing.

Biographies

Jabir Arif graduated as a State Engineer from the National School of Applied Sciences at Abdelmalek Essaâdi University. He completed his PhD's degree in Industrial Engineering and Logistics at Sidi Mohamed Ben Abdellah University. He began his career as a Production Planner within a multinational company operating in the automotive wiring harness. Then he joined the Ministry of Public Services and Modernization of Administration where he was in charge of the national major projects. He is currently serving as an Assistant Professor at Abdelmalek Essaâdi

University. His primary research interests are in the field of Supply Chain Management, Outsourcing of Logistic Activities, Risk Assessment and Modelling. His passion is to make a change in people's lives and Education is one of the important aspects that can make a difference.

Imane IBN Farouk from MOROCCO, is currently serving as an Assistant Professor in National School of management and trade of EL JADIDA (ENCG), graduated with doctorate degree in hospital logistic from SIDI MOHAMED BEN ABDEALLAH UNIVERSITY in FES in 2014, and also a diploma of advanced studies in Engineering Logistics from Hassan II in Casablanca university, MOROCCO, in 2004. Ms. Imane was also a consultant in supplier logistics in the automotive sector and host of supplier performance since 2005.

Fouad Jawab is a professor of higher education at the College of Technology of Sidi Mohamed Ben Abdellah University - Fez in Morocco. He is director of the research laboratory in "International Management, Decision and Logistics" (MIDLO)". He is interested in management sciences and industrial engineering. He specializes in the field of logistics, transport, and Supply Chain Management.

He is the founder and coordinator of the International Colloquium of Logistics and Supply Chain Management "LOGISTIQUA".