

## **Risk Management Approach for Lean, Agile, Resilient and Green Supply Chain**

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**Abstract :** Implementation of LARG (Lean, Agile, Resilient, Green) practices in the supply chain management is a complex task mainly because ecological, economical and operational goals are usually in conflict. To implement these LARG practices successfully, companies need relevant decision making tools allowing processes performance control and improvement strategies visibility. To contribute to this issue, this work tries to answer the following research question: How to master performance and anticipate problems in supply chain LARG practices implementation? To answer this question, a risk management approach (RMA) is adopted. Indeed, the proposed RMA aims basically to assess the ability of a supply chain, guided by "Lean, Green and Achievement" performance goals, to face "agility and resilience risk" factors. To proof its relevance, a logistics academic case study based on simulation is used to illustrate all its stages. It shows particularly how to build the "LARG risk map" which is the main output of this approach.

**Keywords :** agile supply chain, lean supply chain, green supply chain, resilient supply chain, risk approach

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