

LEAN SUPPLY CHAIN MANAGEMENT AND SUSTAINABILITY: FUTURE IMPLICATIONS

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ABSTRACT

Lean Supply Chain Management focuses on optimizing all activities from the customer's perspective by eliminating waste, improving quality, reducing costs, and increasing flexibility throughout the supply chain. Sustainability in supply chain management involves considering economic, environmental, and social impacts, known as the triple bottom line, to make decisions that enhance organizational effectiveness and profitability. The integration of sustainability aspects with economic considerations has gained importance in managerial decision making, particularly in supply chain management, to enhance organizations' overall performance. This conceptual study aims to review the literature on the synergistic effects between lean and resilient supply chain practices and their impact on sustainability dimensions. It also evaluates the effectiveness of extending lean management principles downstream in the supply chain to the final customer to enhance overall sustainability and competitiveness. A rigorous review was conducted using the PRISMA framework to ensure a comprehensive examination of the current findings. Using VOSviewer, we performed a keyword co-occurrence analysis. All articles were sourced from the Scopus database to guarantee data accuracy. The findings of this study indicate that lean and resilient methodologies demonstrate synergistic effects, wherein lean methodologies serve as catalysts for resilient methodologies, ultimately resulting in both direct and indirect ramifications for supply chain sustainability. The implementation of lean methodologies within supply chain management can yield beneficial outcomes for the economic, environmental, and social performance of organizations, thereby enhancing overall sustainability performance. The relationship between lean supply chain management and sustainability is evolving with ongoing research advancements, particularly concerning the influence of lean supply chain management on sustainability. The article also focuses on future research gaps, showing that limited research has been conducted on the relationship between lean supply chain management practices and achieving sustainability across different sectors. Research in this field is still in its early stages, with few studies addressing the synergies between lean supply chain management strategies, indicating a need for further exploration and empirical evidence on the adoption of these strategies for sustainable outcomes.

Keywords: Future research avenues, lean supply chain management, prisma, methodology, sustainability