



7th INTERNATIONAL WORKSHOP ADVANCES IN CLEANER PRODUCTION

“CLEANER PRODUCTION FOR ACHIEVING SUSTAINABLE DEVELOPMENT GOALS”

Lean Six Sigma and Sustainability: Literature Review Analysis

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Abstract

Lean Six Sigma (LSS) has contributed to many organizations around the world to adopt this in their operations to become more competitive. The evolution of production systems and government requirements has led companies to develop strategies to achieve more sustainable operations. Evidences suggest that LSS and sustainability (LSSS) contribute to organization performance and environmental issues. However, the theoretical contribution from LSSS has been insufficiently discussed in literature. This article aims to analyze articles on literature reviews on the LSSS theme, in order to present its main characteristics. This study verifies what has been published on the theme in order to point out similarities and differences in research findings. Additionally, there is a comparison on what has been discussed in LSS literature reviews to what is available in LSSS literature reviews. The results show that there are few publications on LSSS. Even so, there are similarities in research findings among LSS and LSSS literature reviews, which can lead to many research opportunities in the theme.

Keywords: Lean Six Sigma, Sustainability, and literature review.