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Barriers to the adoption of integrated sustainable-green-lean-six sigma-agile manufacturing system (ISGLSAMS): a literature review

[Dharmendra Hariyani](#) (Department of Mechanical Engineering, University Department, Rajasthan Technical University, Kota, India) (Department of Mechanical Engineering, Swami Keshvanand Institute of Technology Management and Gramothan, Jaipur, India)
[Sanjeev Mishra](#) (Department of Mechanical Engineering, University Department of Teaching, Rajasthan Technical University, Kota, India)

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Abstract

Purpose

Scarcity of resources, ecological imbalance, global warming, rising energy prices and the ever-changing need for variety have attracted the government and manufacturers for sustainable development of the industries. The integrated sustainable-green-lean-six sigma-agile manufacturing system (ISGLSAMS) provides a solid platform for meeting both the customers' variety needs and business sustainability requirements. Many organizations opted for ISGLSAMS, but still due to various barriers organizations are not able to fully implement ISGLSAMS. The purpose of this paper is to identify the barriers to the ISGLSAMS, so that a more sustainable industrial manufacturing system and industrial symbiosis can be developed.

Design/methodology/approach

A literature review, from the Web of Science and Google Scholar database, has been carried out to identify the various barriers to the implementation of ISGLSAMS in the entire value chain. A total of 168 research papers have been reviewed for identifying the ISGLSAMS barriers.

Findings

This paper elaborates the concept of the ISGLSAMS, its attributes and various barriers and contributes to a better understanding and successful implementation of ISGLSAMS to meet business' sustainability and market performance goals in the entire value chain. The paper also projects the future research framework and directions for the ISGLSAMS,