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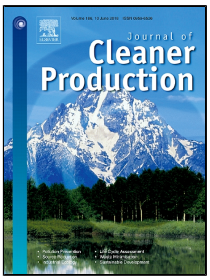

Development of a Framework for Sustainable Enterprise Resource Planning Systems Implementation

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Development of a Framework for Sustainable Enterprise Resource Planning Systems Implementation

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Abstract: Implementation of effective sustainability within organisations requires an integrated information system, such as Enterprise Resource Planning (S-ERP) systems. The S-ERP system helps organisations to integrate all sustainability activities into the main database within an organisation. To implement this system, practitioners need a master plan consisting of a roadmap, framework, and guidelines. Previous studies have examined the important concept of the S-ERP system, the development and evaluation of S-ERP roadmap, and the development of the S-ERP framework. This study proposes an evaluation of the S-ERP framework using expert review methods. Twelve experts are involved in the interview to evaluate the content and usefulness of the framework. The results of the analysis show that the initial S-ERP framework should be divided into two parts: sustainability implementation framework and system implementation framework. The sustainability implementation framework includes two aspects: sustainability paradigm (environment, economy, society) and decisional paradigm (strategic level, tactical level, and operational level). The operational level comprising the value chain components of an organisation. The system implementation framework consists of two aspects: strategic and implementation levels. Experts affirm that the S-ERP framework can be used by organisations from various industries.

Keywords: Sustainable enterprise resource planning; implementation; master plan; framework; evaluation.

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