

ESG governance solution using ERP system based design science research method (Abstract)

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ABSTRACT

Based on 17 indicators from the “The Sustainable Development Goals” proposed by the United Nations in 2015, worldwide countries have successively promoted ESG-related policies, and Taiwan has also promoted relevant policies and practices in 2017. However, ESG indicators is not clearly defined and managed within the enterprise. Therefore, how to incorporate ESG indicators into the company's strategy and management in response to government policies has become an important issue. The purpose of this research is to propose a digital solution for enterprises to achieve ESG indicators management purpose within the enterprise. So, this research question is to solve ESG management issue by using ERP system to integrate ESG indicators. Among the research question, this research hopes to address the following questions:

1. Taking a certain industry as an example, finding the important international ESG indicators for enterprises, as well as the indicator weight ratio;
2. Designing ESG indicators integrated with the ERP system and used in the future with government policy review and supervision.

This research uses Design Science Research (DSR) methods to conduct systematic needs analysis of the research problem and design of solutions. The results of this research include: 1. System structure design, 2. Database design; and production of relevant system design documents: 1. System flow chart, 2. Database association diagram, 3. Program list. The contributions of this research include the information system equipment SOP operations of enterprises for ESG indicators digital solution, as well as the related system design documents produced, to facilitate enterprises to promote ESG-related policies in response to the government, and enterprises to provide solutions for ESG supervision. Through the integration with ERP system, the cost of ESG management integration can be reduced, and at the same time, the digital transformation of enterprises towards ESG policy goals can be completed.

Keywords: ESG, ERP, DSR