# Study on support system of Kaizen activity for sustainable improvement of global competitiveness

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Abstrak

**ABSTRACT**
The purpose of this paper is to describe a proposed support system of
Kaizen activity which contributes to improve related performance
indicators in a production department. Background
research consisted of the following three parts. First, a Decision
Support System (DSS) provided an illustration for the proposed system; its three elements of interest include
Kaizen case-base, Model-base and User-interface. The first element accumulates useful cases for
developing new cases. The second element accumulates models to utilize the case-base effectively,
including the Kaizen strategic model, Kaizen objective model, Kaizen data analysis
model, and model building blocks and subroutines. The third element links Kaizen case-base, Model-base
and Kaizen engineers. The linkages are realized by four procedures: installation of
proposed support system, construction of Kaizen
case-base, evaluation of the case-base, and
development of new cases. The second portion of our
research was a discussion of Kaizen case-base from three viewpoints: its utilization purpose, its information
structure, and data types
accumulated in it. Thirdly, investigation of the
three primary model types mentioned above was
performed and the proposed model-base was
constructed. Proposed system was designed to
maintain and improve Key Performance Indicators (KPIs) in a manufacturing system through
discussions with Kaizen experts whose
factory collaborated in this research.