

EXPLORING HOW SENSING CAPABILITY AFFECT SUPPLY CHAIN QUALITY MANAGEMENT

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ABSTRACT

This paper presents a research model to examine factors influencing supply chain quality management and implementation in inter-organizational relationships. The model comprises four research hypotheses with five constructs, including supply chain agility, data synchronization, judgmental adjustments, sensing capability and supply chain quality management. The constructs are measured by well-supported measures in the literature. The hypotheses are tested via an empirical study of supply chains. Data are collected from 269 manufacturing firms that are among the top 2500 Taiwanese manufacturing firms listed by Business Weekly. The results of the empirical study suggest that the role played by sensing capability is critical in ensuring the supply chain quality management. The findings of the study provide useful insights into how supply chain members should reinforce supply chain agility, data synchronization and judgmental adjustments so as to improve their sensing capability and in turn enhance supply chain quality management for the supply chain as a whole.

Keywords : Supply chain agility, Data synchronization, Judgmental adjustments, Sensing capability, Supply chain quality management