

Chapter 7

INFORMATION SYSTEMS APPROACHES TO SUSTAINABILITY OF SUPPLY CHAIN MANAGEMENT SYSTEMS IN TERMS OF STRATEGIC LEVEL

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INTRODUCTION

Supply Chain comprises the entire network of producers, suppliers, shops and consumers involved in the production, procurement and selling of a specific good or service. Supply Chain Management (SCM), initially launched in the early 1980s, is the construction process of the supply chain preparation, integration and management to maximize the efficiency and achieve comparative advantage. SCM encompasses the collaboration between the customers and suppliers of components, intelligence, finance and accounting flows (Sinha, 2009; Sodhi and Tang, 2012; Mangan et al., 2012).

SCM involves the coordination and management via the cooperation corporate contacts, efficient market structures and high degree of knowledge exchange of supply chain institutions and operations to develop a massive value structure providing a sustained strategic edge to member organisations. Academics and professionals use operational management approaches to optimize internal company procedures. These attempts of optimisation refer to a specific process or to the full sequence of processes that give the end user value. The whole strategies for optimisation are indeed extended to a certain framework or to the whole series of processes that provide the individual user benefit. All procedures comprise those threats and opportunities to the organization. This viewpoint is also called supply chain management and can be a valuable way of ensuring that clients get the best with their resources (Handfield and Nichols, 2004; Sinha, 2009; Sodhi and Tang, 2012; Mangan et al., 2012).

Including all sectors, the supply chain seems to be an essential aspect of logistics growth. It improves the quality and efficacy of not only the movement of products, but also the exchange of knowledge through the diverse hierarchies of all levels.

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systems, consistency is necessary. Quality and performance measures evaluation of IT effectiveness and suitability in SCM should be developed. Development of IT regulations and environmental structures in SCM is required. More research is needed on the consistency between the theoretical framework and the supply chain framework or goals.

Companies present IS(Information Systems) from their own point of view and in a dynamic setting that is disseminated to the inter-corporate point of view. Companies should implement the IS strategically to gain resources to prevent environmental risks. This suggests that businesses should settle on a policy on which they should adapt, either internally or externally, on respond to the situation they face. Prior analysis showed that strategic implementation of IS has a beneficial impact on success based on strategic IS theory, and the finding shows that strategic decision-making of organizations is the source of performance discrepancies dependent on the principle of strategic preference.

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