

COMBINED AHP- WSM BASED APPROACH FOR THE EVALUATION OF KNOWLEDGE SHARING CAPABILITIES OF SUPPLY CHAIN PARTNERS

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ABSTRACT

A supply chain (SC) consists of all parties involved, directly or indirectly, in fulfilling a customer request. The supply chain not only includes the manufacturer and suppliers, but also transporters, warehouses, retailers, and customers themselves. Supplier selection is one of the basic activities of Supply Chain Management (SCM). A best supplier for the firm is one who has implemented the concept of knowledge management successfully in his firm. Therefore the evaluation of knowledge sharing capability of suppliers becomes a task of prime importance.

Such a case may be treated as a case of multi criteria decision making for the solution of which two Multi Criteria Decision Making (MCDM) techniques may be used. In present paper the use of Analytical Hierarchy Process (AHP) and Weighted Sum Model (WSM) is shown with an example. Firstly, the weights of criteria are calculated by using AHP, and then by implementing WSM, assessment of knowledge sharing capabilities has been done.

KEYWORDS: Supply Chain Management (SCM), Multi Criteria Decision Making (MCDM), Analytical Hierarchy Process (AHP), Weighted Sum Model (WSM)