Decision Analysis in Sector Selection: A Case Study of a Development Organization

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Abstract

This paper addresses a decision problem for a development organization in Bangladesh where outcome of an intervention is highly uncertain and depends on several uncontrollable factors. The case study is classified by the proven techniques of Decision Analysis and portrays how decisions can be made by using knowledge based decision support system. The case study demonstrates how sector selection decisions of development organization can be modeled in an intelligent decision support system and also how optimal decision is reached. Sensitivity analysis is also performed by the system to identify the sensitive parameters of the model and how they impact on the optimal decision.

Keywords

Decision Analysis, Knowledge Intelligent Decision Support System, Sensitivity Analysis.