

MCDM IN FEASIBILITY ANALYSIS OF R&D PROGRAMS

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ABSTRACT

A pre-feasibility study on national programs, which are related with social overhead capital, covers economic analysis and policy analysis. Criteria of the study include the efficiency and the fairness of government budget plan. In order to integrate information and analyses, AHP has been applied maintaining the overall structure.

A pre-feasibility analysis of National R&D programs applied the AHP as a decision making tool benchmarking the pre-feasibility study on SOC programs. In order to reflect the characteristics of R&D programs in analysis, researchers added the technology as a cluster of first hierarchy in decision making model. Even though the decision making structure is regarded as effective and reasonable in analyzing not only the market uncertainty but also technology uncertainty, it aroused a question whether the structure undermines the assumption of independence between elements; an core assumption of AHP.

In this paper, the story about feasibility analysis of National R&D programs and the efficiency of AHP as a decision making tool are presented. Also it presents some suggestions about applying ANP.

Keywords: National R&D program, Feasibility analysis, AHP