

Design of a Goal Alternatives Disposition System Having Technology Goal Coordinating Subsystem

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The purpose of this paper is to select the optimal goal system alternatives using a intermediate system coordinating the technology gap mutually when the inconsistency is often occurred between two goal alternatives selected by two different types of technological forecasting principle.

For this purpose, Normative Structure Model(NSM) to derive the goal-technology by relevance tree method using normative principle is constructed. And also Exploratory Structure Model(ESM) to derive the existing-technology by morphological method using exploratory principle is designed.

In order to coordinate the technology gap of inter-goal alternatives established in this two models:

First, the normative priority index(NPI) meaning technical performance to the goal is built up in NSM,

Second, the exploratory priority index(EPI) upon due consideration of cost and feasibility is built up in ESM,

Finally, the total system priority index(TSPI) to reflect their relationship is established and the optimal goal system alternative is selected by the TSPI.

This paper is to design the RDPGS/GSAD of establishing, coordinating and selecting the goal system alternatives. This RDPGS/GSAD(R&D Project Goal Setting System/Goal Setting Alternatives Disposition) system having the Coordinating mechanism has a high adaptability to the changing environment because of its characteristic of being able to modified and changed by feedback principle.

What is better, it has a great significance that RDPGS/GSAD has designed originatively in this study.

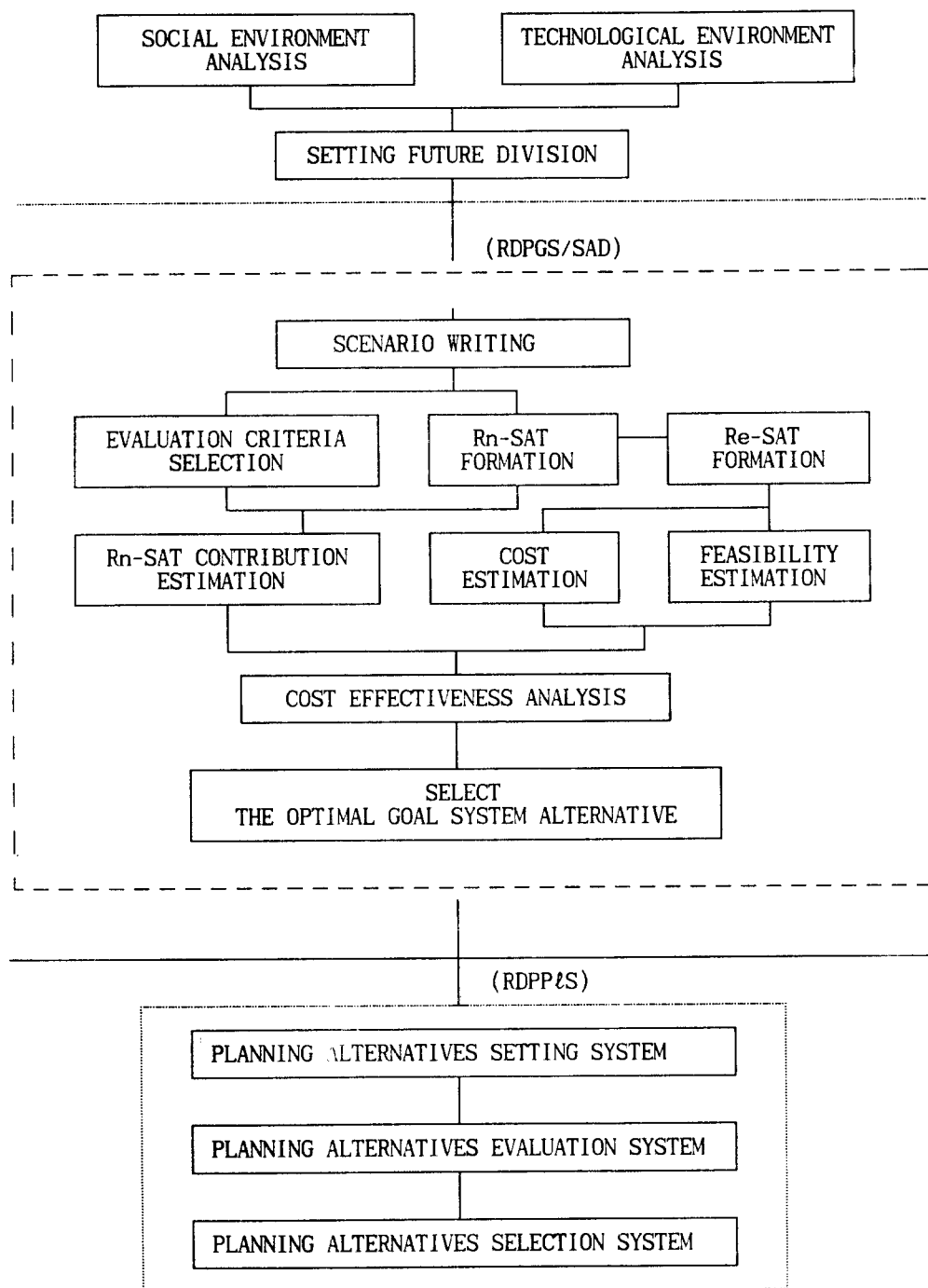


Fig.1 CONCEPTUAL DESIGN FLOW OF GOAL ALTERNATIVES DISPOSITION SYSTEM