

Design of Modelbase for Investment Planning

서 의 호 · 서 창 교

포항공과대학 산업공학과 경영정보시스템 연구실

An advanced information system concept, DSS (Decision Support System) has been prevailing since 1980s. It supports managers' decision making activity by providing not only information but decision alternatives. It essentially consists of the components of database, modelbase and dialogue systems. With the development of its databases, CEOs need a number of modelbase in establishing DSSs in various areas such as production planning, investment, etc.

This research particularly focuses on establishment of a mid and long-term investment DSS and investigates the necessity and the problems of an investment DSS and the decision criteria for investment priority. It (1) proposes a modelbase based on Zero-Base Budgeting and Analytic Hierarchical Process; (2) programs it; and (3) simulates it using test data.

The initial development of an investment modelbase would be extended to other areas for ultimate development of a DSS. More research is needed in near future to test the system using real data and develop a user-friendly dialogue system.