Additional Projects in Economics

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Abstract: Implementation of management science methods to support capital budgeting decisions and financial planning.

The project adapts the existing business game OMNILOG IV to micro computer running with MS-DOS and to develop new software for planning and decision support. OMNILOG IV is an interactive business game. Up to four firms, each represented by a group of about 5 students, compete on several national and international markets. The purpose of the business game is to improve the understanding of the different functional units of a firm and their interdependencies.

Development and implementation of planning and decision support modules to be used in different functional units of a firm (e.g. marketing, finance, production), analysis and graphical display of historical accounting data.
EUS are of service to the support, i.e. preparation of management decisions by making use of the central resources of the enterprise. It is true that the corresponding programs or program systems and the required data should be available by means of personal computer at the work-station, but - both programs as well as especially data - should be subject to a central control and administration system. For that purpose, a network of several personal computers (especially in small and medium-size enterprises) or their connection to a central large computer constitutes a solution possibility. The individual projects are:

1. EUS in the fields: project-planning, logistics, and stockkeeping (Neumann).
2. EUS in the marketing sector (Gaul).
3. EUS with the help of APL for officials in charge.
4. Documentation processing for EUS (Ottmann).
5. Data design and data management for EUS (Stucky).

All economic departments use a great number of models in management science, operations research and statistics to support economic decisions. These traditional economic tools shall be made available to end users with little experience.