ABSTRACT

This user’s experience with the new SLIM/BML package suggests that the current version of the DSS SLIM is not well suited for Business Policy courses because it requires more competence in programming than is possessed by most students. While game administrators can design SLIM-based decision models for student use, it is unlikely that many policy teachers will make the investment in time to develop the skill needed to provide these tools. SLIM is a positive contribution to the kind of technology which Business Policy games need and it is hoped that others will take up the gauntlet and carry us further toward the goal of user-oriented DSSs.

INTRODUCTION

It is rather common for Business Policy instructors to use a computerized business simulation as a means for demonstrating the need for integrated decision-making at the policy level[6]. These games require students to assume the role of top management in hypothetical firms and to develop decisions in less wall clock time than would be the case if they were managing real firms. This time scale compression can lead students to make decisions with very little use of any of the tools and techniques which we teach judging team performance without adequate time to analyze the performance data developed during the game play. In 1980 Sugges [5] suggested that game builders provide decision-support systems (DSSs) to enable players and administrators to rationally cope with this time scale compression. Courtney and Jensen [3] recently made a DSS package available for use with The Business Management Laboratory L a computerized business game which has been available in its current version since 1977. The DSS package title is A System Laboratory for Information Management (SLIM).

The purpose of this paper is to report on my experience with SLIM during a graduate course in Business Policy taught in the summer of 1981 at Temple University. This was perhaps not the best time to test SLIM because the summer course had an accelerated schedule which involved two meetings per week for seven weeks instead of the usual once per week meeting for 14 weeks. Thus the student teams were required to submit two decisions per week instead of one decision per week which compressed the decision-making time scale even more.

SLIM is a data-oriented OSS as opposed to a model-oriented DSS.’ Data-oriented DSSs consist of a data base and software designed to assist in the solution of managerial problems; e.g., the software may offer forecasting models, production scheduling models, cash flow projection models, etc. SLIM, therefore, is perhaps more suitable for those teaching an MIS course than for those teaching a policy course. The following critique of SLIM is from a Business Policy course perspective and statements made from that perspective may have little relevance for those who might wish to use SLIM as an instructional aid in an MIS course.

SITUATIONAL DESCRIPTION

MBA students at Temple have played BML without SLIM for over two years and therefore have some prior knowledge of BML before reaching the capstone Business Policy course where BML is used as a supplement to the usual case method. Typically however they are unprepared for the cognitive complexity of BML. Since 20-30% of a student’s grade comes from his team’s performance in BML student’s are motivated to rather quickly gain insight into the interrelationships between various game variables and profitability. While the BML student manual and the administrator try to offer some guidance in gaining this insight, for the most part students are expected to devise their own methods for accomplishing this task. It has been observed by Courtney and Jensen [2] that the students receive little information about competitors’ positions and decisions on a quarterly basis and that only certain aggregate information is available on an annual basis. Therefore students often reach the end of the game play with a feeling of frustration which results in part from the time-scale compression and in part from not having access to information which realistically might be available to them if they were managing an actual firm.

SLIM addresses this second area by providing a data base which students can interrogate to gain access to more information about competitors than the standard version of BML provides to them. Furthermore SLIM gives them access to information which the standard version of BML does offer annually, but which they now can have within one quarter after the decision has been made. It is not surprising that the students were pleased to learn about the availability of the SLIM package.

THE SLIM PACKAGE

Those currently using BML can either modify the basic program of BML by adding a subroutine which creates a data base or they can simply discard their current version of BML and load the new BML/SLIM version. It is also necessary to install a data dictionary, a data base manager, and the SLIM program itself which consists of a query language and a query processor. After
each decision has been run the data base is updated and
students can retrieve data from the data base via an
interactive terminal using SLIM.

SLIM provides the students with the capability of either
retrieving subsets of the data base or creating programs
which are in effect report generators. This latter capability is
limited by the kinds of functions SLIM contains and the
programming proficiency of the students. The need for
students to develop a capacity to create files of SLIM
commands is perhaps the biggest weakness of the SLIM
package for Business Policy students.

STUDENT EXPERIENCE WITH SLIM

After students were introduced to BML and had made a trial
decision, they were introduced to SLIM. All teams there
were seven teams consisting of two to three students each
were encouraged to use SLIM and all did try SLIM at least
one time. One team only tried SLIM once and never
attempted to use it again. Another team used SLIM more
than any of the others, but only to retrieve subsets of data.
They did not ever develop a SLIM program to do any data
processing although they did manually process the subsets of
data.

A third team had a member who was a systems analyst. He
worked on a fairly complex SLIM program which would
develop a proforma income statement but by the end of the
seven week course had not succeeded in getting it to run.
While one may speculate about why this student was not
successful, I think the important point is that his efforts spent
developing the SLIM program reduced his contribution to
the team decision making effort for BML. Furthermore, it
was observed that the SLIM package does not lend itself to
very great flexibility in generating printed labels for items
which can be internally calculated using the SLIM data
processing capability. The other teams made limited use of
the SLIM package in the data retrieval mode.

DISCUSSION

Generally speaking students stated that they were pleased to
have SLIM available but they found that its usefulness was
limited for two reasons. First, as noted previously, the course
met on an accelerated basis and therefore by the time they
had gained some facility with SLIM, the course was over.
Second, writing SLIM programs was complicated enough
that they would have preferred having programs available
for their use rather than having to develop programs for
themselves.

The first problem is one that might be diminished in
intensity by using SLIM during a 14-week long course. It
also might be ameliorated by providing students with a
sample data base which they could practice on sooner rather
than waiting until the actual game data base has been
created. The administrator could also give the students
teaching Business Policy courses. Initially it increases the
cognitive complexity of the business game situation. This
cost is perhaps repaid over time by the improved data
retrieval capability. More importantly, however, SLIM
requires that students create their own report generating
programs. This diverts student time away from the main
thrust of a Business Policy course and is therefore an activity
which many students will be unwilling to engage in. If the
SLIM designers want to provide SLIM as a DSS for those
using BML for Business Policy courses, they need to
provide modules which assist students in sales forecasting,
production scheduling, making cash flow analyses, and
developing proforma statements.

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