

Research
Based
Curricula



**Decision Making in
Business**

Key Stage 5

Business Studies

Resource 4

2019



Resource Four Overview



Topic	Using Computer Support Systems in Decision Making
A-Level Modules	Understanding management decision making
Objectives	<p>By the end of this resource, you will be able to:</p> <ul style="list-style-type: none">✓ identify the impact of technology on decision making;✓ appreciate the difficulties in learning and interacting with the software;✓ understand the importance of development of new modules and features.
Instructions	<ol style="list-style-type: none">1. Read the data source2. Complete the activities3. Explore the further reading
Context	<p>Decision Support Systems (DSS) is an information system that supports business or organisational decision-making activities. DSSs serve the management, operations and planning levels of an organisation (usually mid and higher management) and help people make decisions about problems that may be rapidly changing and not easily specified in advance—i.e. unstructured and semi-structured decision problems. Decision support systems can be either fully computerised or human-powered or a combination of both.</p> <p>(https://en.wikipedia.org/wiki/Decision_support_system)</p> <p>Forecasting Support Systems (FSS) is a set of (typically computer-based) procedures that facilitate interactive forecasting of key variables in a given organisational context. An FSS enables users to combine relevant information, analytical models, and judgements, as well as visualisations, to produce (or create) the forecasts and monitor their accuracy. (Ord, K., Fildes, R., Kourentzes, N., 7 2017. Principles of Business Forecasting, 2nd Edition. Wessex Press Publishing Co.)</p>

Resource Four

Data Source



In order to facilitate various operational processes in more structured, problem-oriented, analytic-driven way, many companies use different Decision Support Systems (DSS). Looking at the figures below, try to identify areas where these systems can be helpful. Where can we use similar systems?

Figure 1

Customer Decision Support System (CDSS) example
– immediate alerts

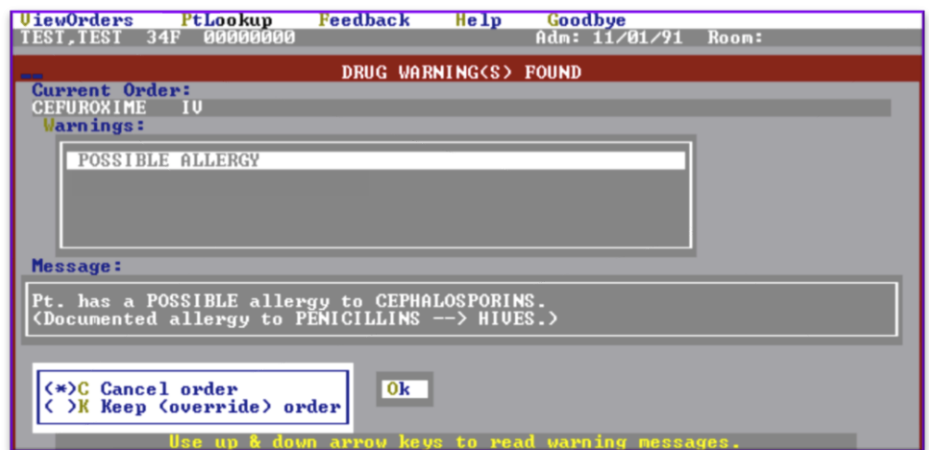
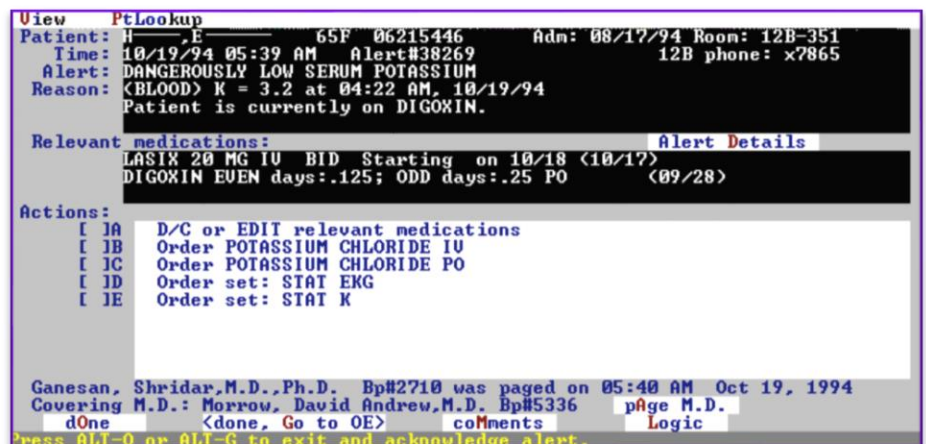


Figure 2

Customer Decision Support System (CDSS) example
– event-driven alerts



Resource Four Data Source



Figure 3

LADSS (Land Allocation Decision Support System) example

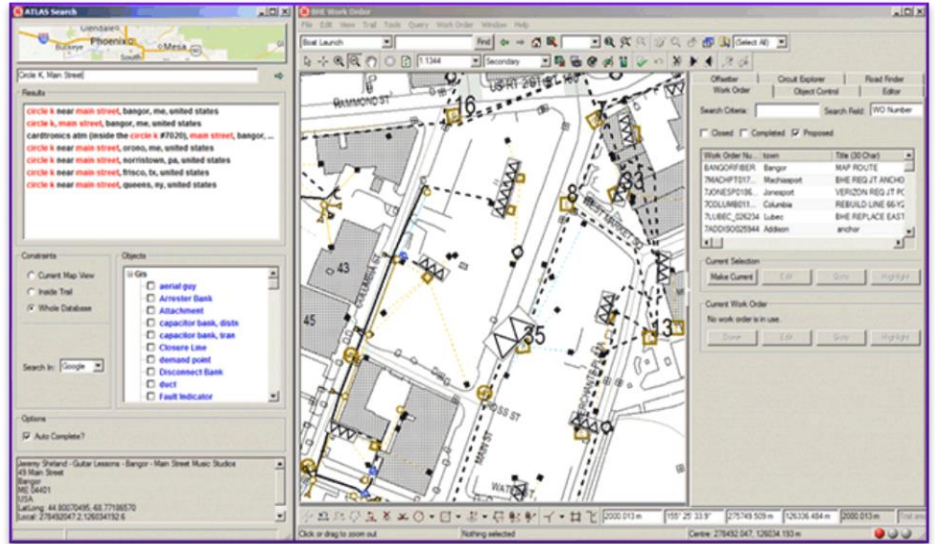


Figure 4

FSS (Forecasting Support System) example



Resource Four Activities



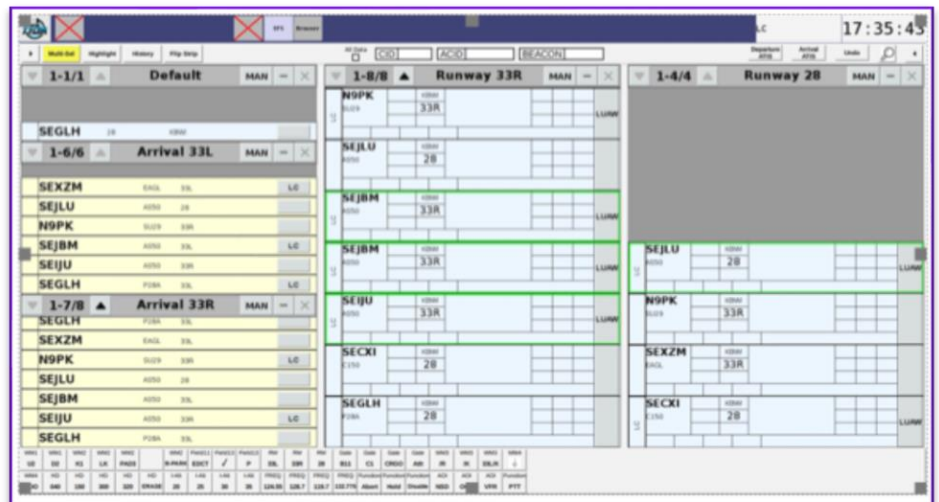
Activities 1

1. What is the main idea of Decision Support Systems?
2. Can you recall any software that helped you to make a decision?
3. How would you improve the software in Figure 1 and 2?
4. Can you recall any software that you used to make decisions?

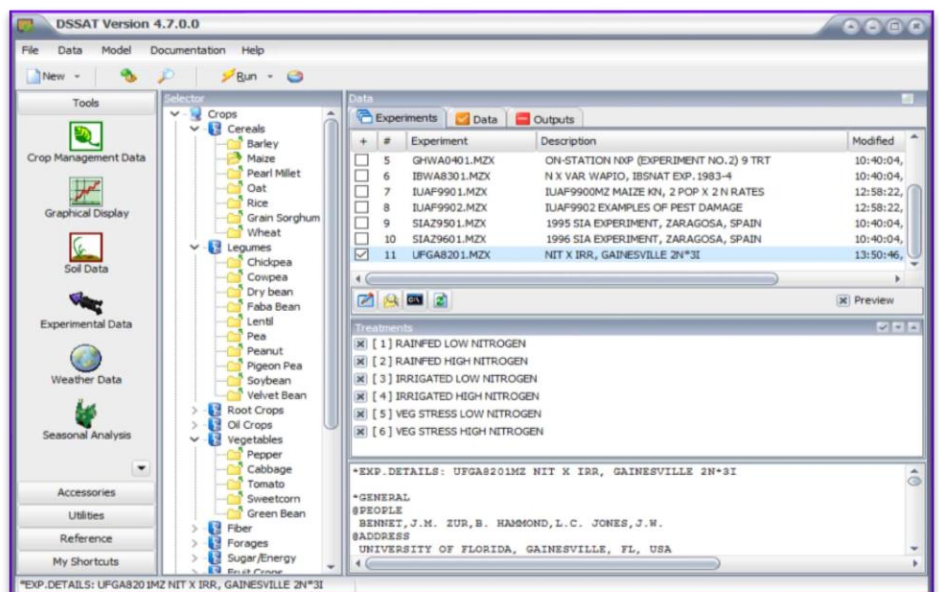
2

Can you guess what industries might use these DSS?

Industry 1: _____



Industry 2: _____



Resource Four Activities



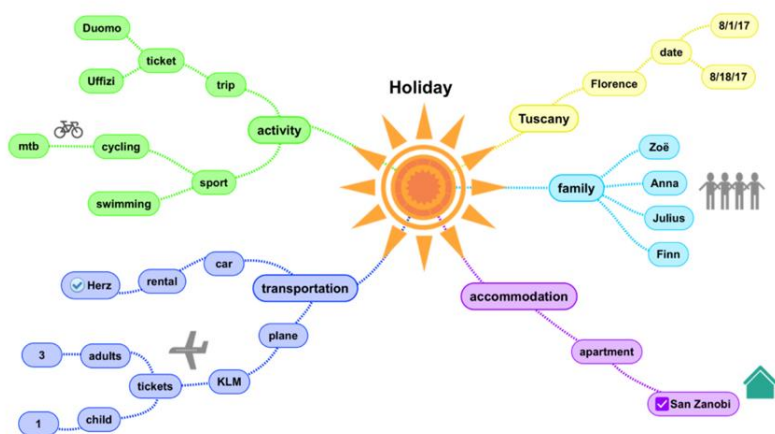
Activities 3

There is a nice tool for your planning and decision making:
mind mapping.

A mind map is a diagram used to organise information visually. A mind map is hierarchical and shows relationships among pieces of the whole. It is often created around a single concept, drawn as an image in the centre of a blank page, to which associated representations of ideas such as images, words and parts of words are added. Major ideas are connected directly to the central concept, and other ideas branch out from those major ideas.

https://en.wikipedia.org/wiki/Mind_map

Many programs allow creating such maps (see an example below).



Using one of any free software and any topic, please try to create one, so you can see the full spectre of opportunities and applications of this useful tool.

Resource Four Further Reading



Explore Look up online or check this journal:
<https://www.journals.elsevier.com/decision-support-systems>.

A short overview of DSS:
http://www.umsl.edu/~sautery/analysis/488_f02_papers/dss.html



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