

## **MODULE - 9 LECTURE NOTES - 4**

### **DECISION SUPPORT SYSTEMS**

#### **INTRODUCTION**

DSS is an interactive computer-based system to help decision makers use communications technologies, data, documents, knowledge and/or models to identify and solve problems, complete decision process tasks, and make decisions. Geographic Information Systems (GIS), Enterprise Information Systems (EIS), Expert Systems (ES), On-Line Analytical Processing (OLAP), software agents, knowledge discovery systems and group DSS can all be lumped into the category of systems we call as DSS.

#### **DSS FOR DECISION-MAKING**

##### Decision Preparation

- DSS environments provide data required as input to the decision-making process.
- This is what almost all data mart and data warehousing environments do today.

##### Decision structuring

- DSS environments provide tools and models for arranging the inputs in ways that make sense to frame the decision.
- These tools and models are not pivot tables and other aspects of data presentation found in query tools.
- They are actual decision-making tools, like fault tree analysis, Bayesian logic and model-based decision-making based on things like neural networks.

##### Context Development

- DSS environments again provide tools, and provide the mechanisms for capturing information about a decision's constituencies (who are affected by this decision), outcomes and their probabilities, and other elements of the larger decision-making context.

##### Decision-making

- DSS environments may automate all or part of the decision-making process and offer evaluations on the optimal decision.
- Expert systems and artificial intelligence environments can do this

##### Decision Propagation

- DSS environments take the information gathered about constituencies, dependencies, outcomes and drive elements of the decision into those constituencies for action.

# Module 9 Lecture Notes Decision Support Systems

## Introduction

**G Orfield**



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