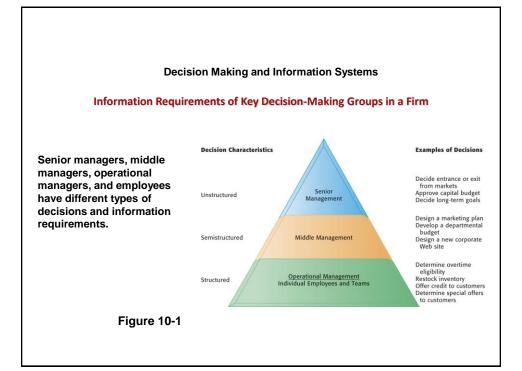
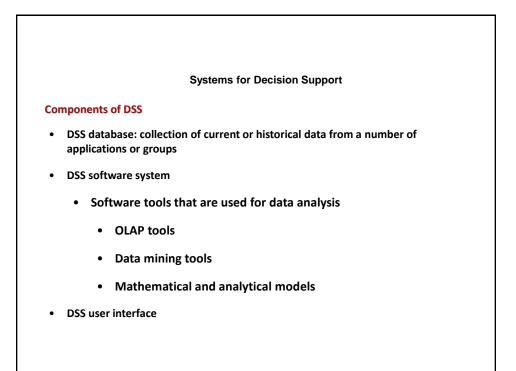
Improving Decision Making and Managing Knowledge

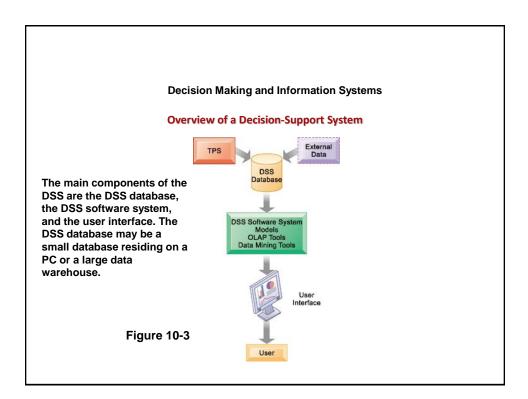


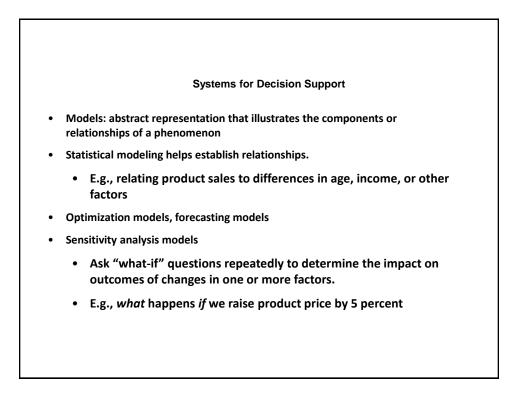
Decision Making and Information Systems

The Decision-Making Process

- 1. Intelligence
 - Discovering, identifying, and understanding the problems occurring in the organization—why is there a problem, where, what effects it is having on the firm
- 2. Design
 - Identifying and exploring various solutions
- 3. Choice
 - Choosing among solution alternatives
- 4. Implementation
 - Making chosen alternative work and monitoring how well solution is working







Systems for Decision Support

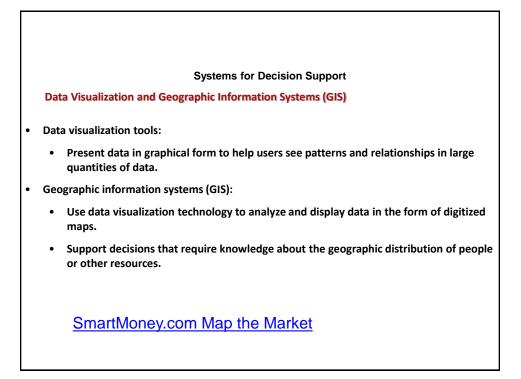
Using Spreadsheet Tables to Support Decision Making

• Spreadsheet tables can answer multiple dimensions of questions.

- Time of day and average purchase
- Payment type and average purchase
- Payment type, region, and source

Pivot table

· Displays two or more dimensions of data in a convenient format



SmartMoney.com Map the Market

The map is a powerful new tool for spotting investment trends and opportunities. This quick-start guide will show you how to interpret the map, drill down for detailed information and customize your view. For advanced tips, see our article, Secrets to Using the Map of the Market.

The market at a glance

The map lets you watch more than 500 stocks at once, with data updated every 15 minutes. Each colored rectangle in the map represents an individual company. The rectangle's size reflects the company's market cap and the color shows price performance. (Green means the stock price is up; red means it's down. Dark colors are neutral). Move the mouse over a company rectangle and a little panel will pop up with more information.

For example, the picture at left shows a group of technology companies. The mouse is pointing to a dark rectangle, representing Oracle. Notice that the green rectangle at the upper left is much bigger than the others. Exactly which Redmond-based software behemoth it represents is left as an exercise for the reader.

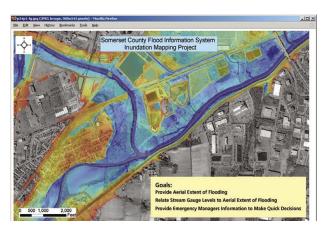
Click to drill down

Want to know more about an individual company? Click on it to bring up a menu like this one. The first two options let you focus on a specific sector or industry. (In the menu at right you could choose a map of technology stocks in general, or software stocks in particular.) The other menu items will take you to our

interactive research tools for news, detailed financial data and historical graphs.

Decision Making and Information Systems

Somerset County, New Jersey, developed a GIS based on ESRI software to provide Web access to geospatial data about flood conditions. The system provides information that helps emergency responders and county residents prepare for floods and enables emergency managers to make decisions more quickly.





Systems for Decision Support
Executive Support Systems (ESS)
 Bring together data from many different internal and external sources, often through a portal.
 Digital dashboard: gives senior executives a picture of the overall performance of an organization.
 Drill down capability: enables an executive to zoom in on details or zoom out for a broader view.
 Used to monitor organizational performance, track activities of competitors, identify changing market conditions, spot problems, identify opportunities, and forecast trends.

Intelligent Systems for Decision Support

- Intelligent techniques for enhancing decision making
 - Many based on artificial intelligence (AI)
 - Computer-based systems (hardware and software) that attempt to emulate human behavior and thought patterns
 - Include:
 - Expert systems
 - Case-based reasoning
 - Fuzzy logic
 - Neural networks
 - Genetic algorithms
 - Intelligent agents

