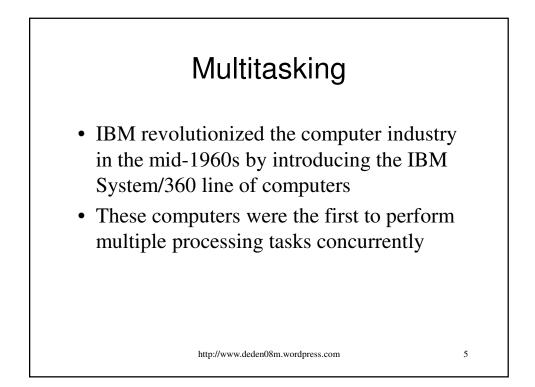


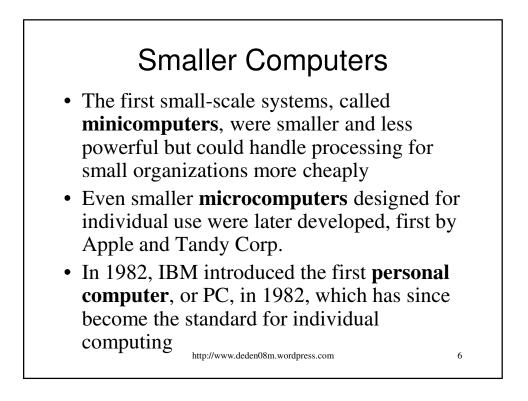
HISTORY OF INFORMATION SYSTEMS

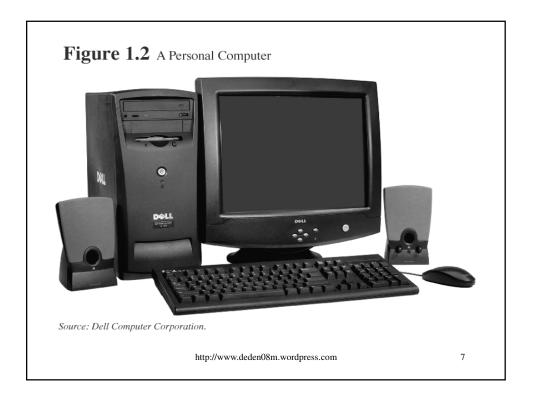
- The earliest "mainframe" computers could only process a single task by a single user
 - 1946: ENIAC (Electronic Numerical Integrator and Calculator) was developed
 - 1951: first computer installed by the U.S. Census Bureau
 - 1954: first computer used by G.E.
- Over the last half century, hardware has seen manyfold increases in speed and capacity and dramatic size reductions
- Applications have also evolved from relatively simple accounting programs to systems designed to solve a wide variety of problems

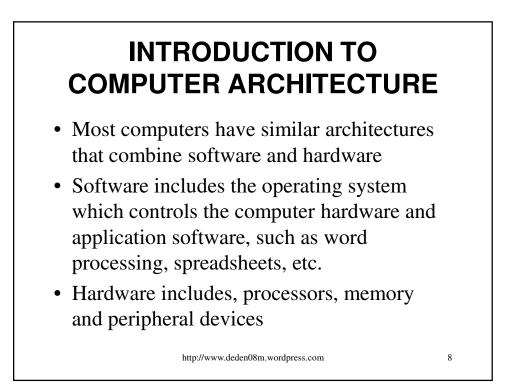
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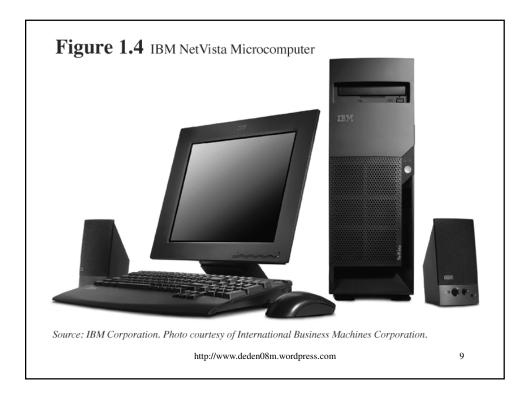
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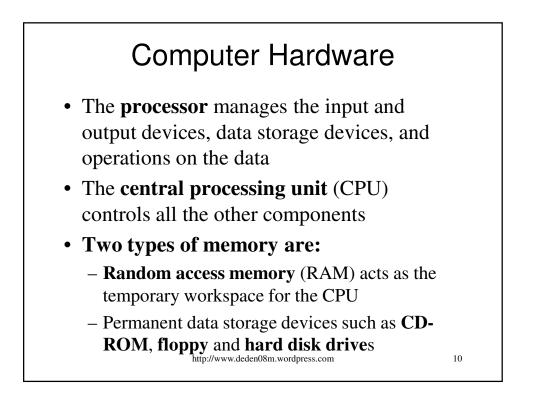


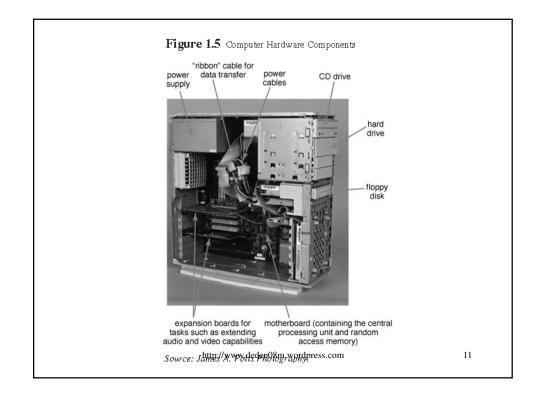


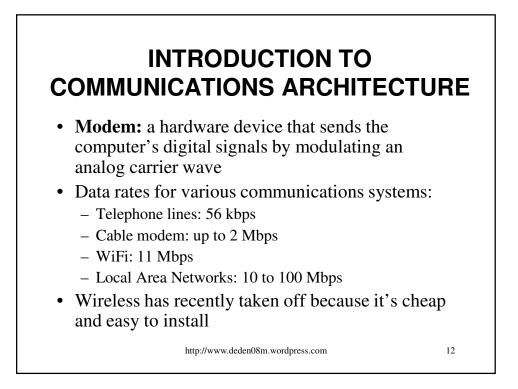


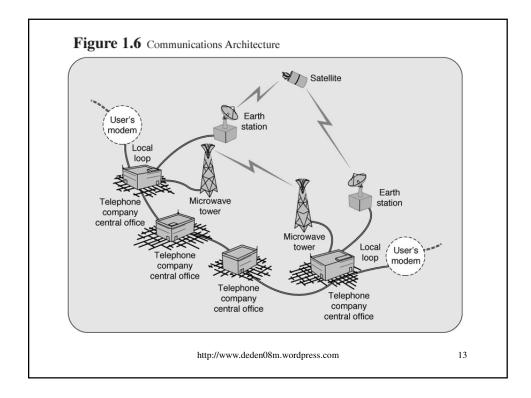


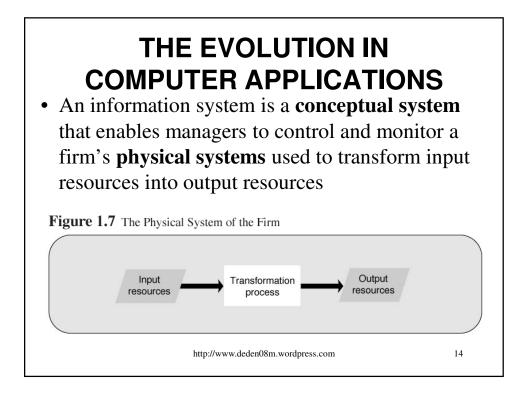


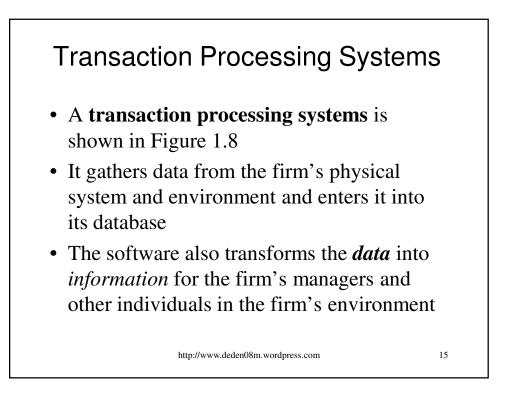


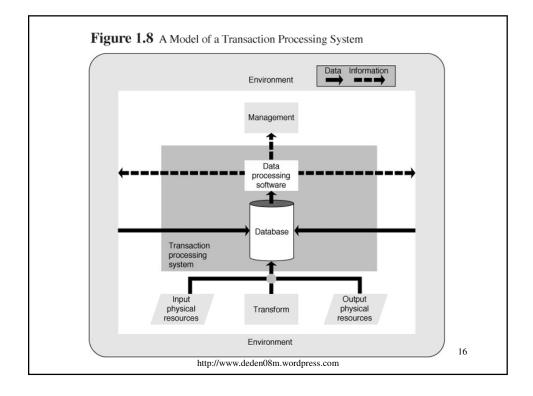


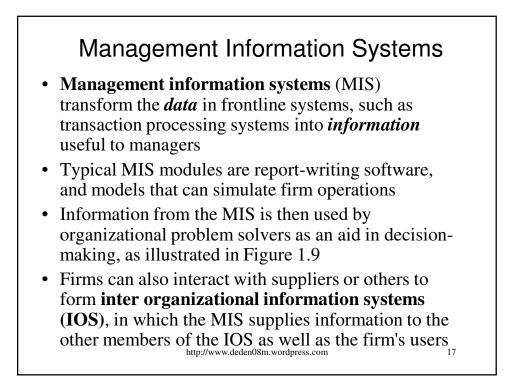


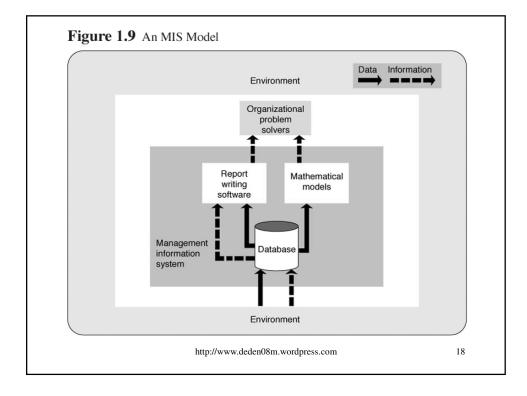


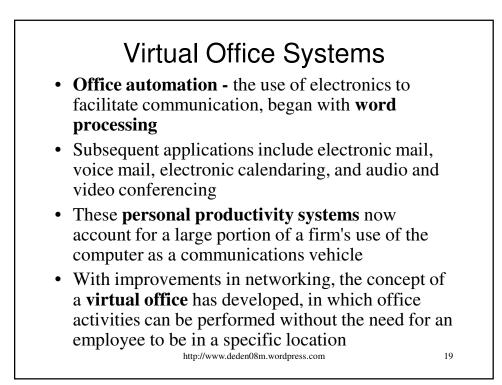


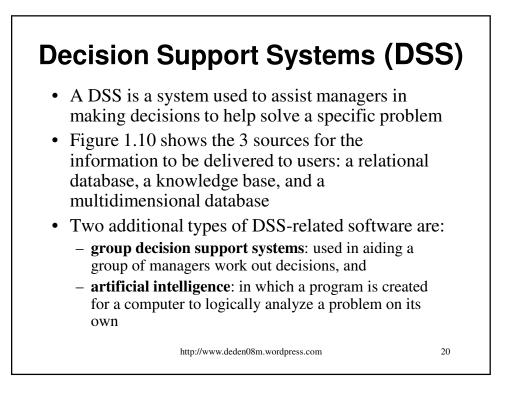


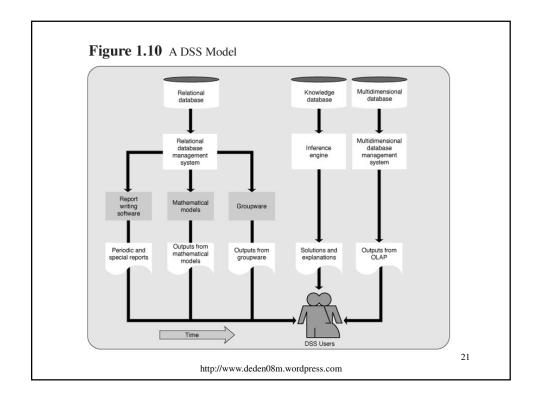


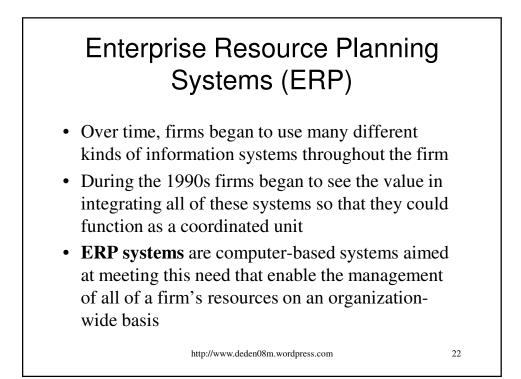












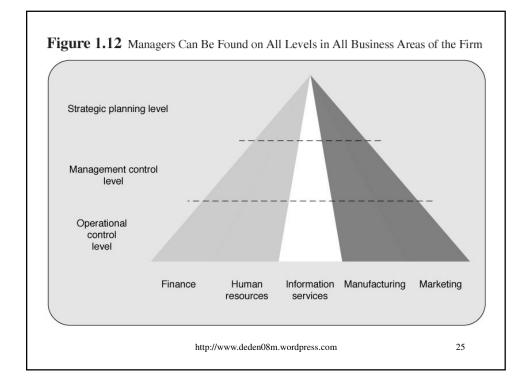
MANAGERS AS INFORMATION SYSTEM USERS

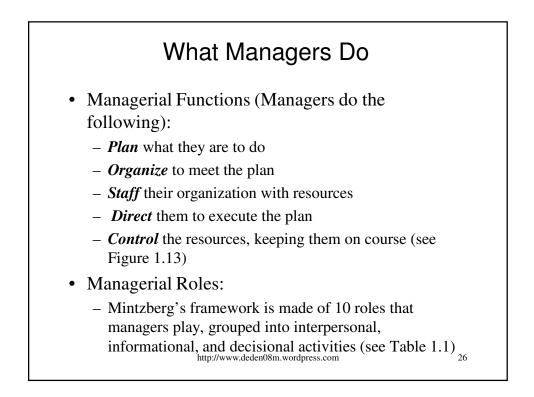
- Managers exist at various **managerial levels** and within various **business areas** of the firm
- What level an IS is developed for influences how it operates (see Figure 1.11)
- The 3 primary management levels are (see Figure 1.12):
 - 1. Strategic planning level
 - 2. Management control level
 - 3. Operational control level

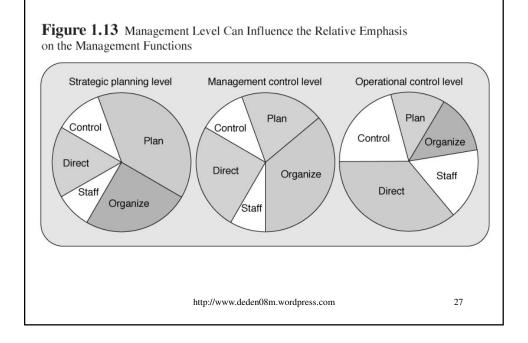
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Figure 1.11 Management Level Can Influence Both the Source and Presentation Form of Information Strategic planning level Environmental Management control level Operational control level Internal A. Influence on information source Strategic planning level Summary Management control level Detail Operational control level B. Influence on information form http://www.deden08m.wordpress.com 24







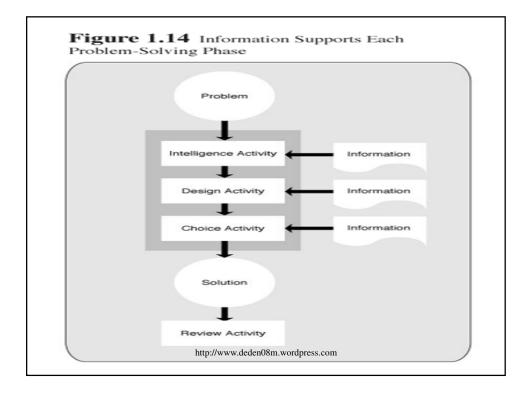
Mintzberg's Manager	ial Roles
INTERPERSONAL ROLES	Figurehead The manager performs ceremonial duties, such as giving visiting dignitaries tours of the facilities. Leader The manager maintains the unit by hiring and training the staff and providing motivation and encouragement. Liaison The manager makes contacts with persons out- side the manager's own unit—peers and others in the unit's environment—for the purpose of attending to busi- ness matters.
Informational Roles	Monitor The manager constantly looks for information bearing on the performance of the unit. The manager's sensory perceptors scan both the internal activity of the unit and its environment. Disseminator The manager passes valuable information along to others in the unit. Spokesperson The manager passes valuable information along to those outside the unit—superiors and persons in the environment.
DECISIONAL ROLES	Entrepreneur The manager makes rather permanent improvements to the unit, such as changing the organiza- tional structure. Disturbance handler The manager reacts to unantici- pated events, such as the devaluation of the dollar in a foreign country where the firm has operations. Resource allocator The manager controls the purse strings of the unit, determining which subsidiary units get which resources. Negotiator The manager resolves disputes both within the unit and between the units and its environment.

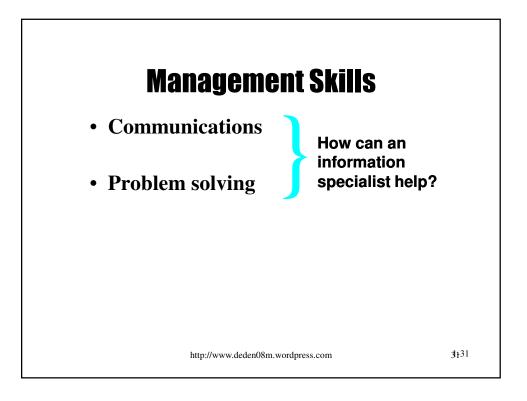
THE ROLE OF INFORMATION IN MANAGEMENT PROBLEM SOLVING

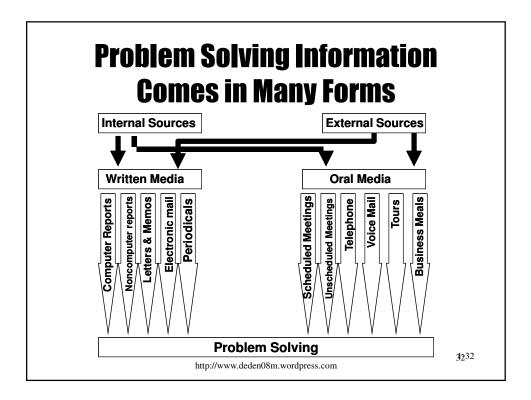
- While a **problem** can be harmful or potentially harmful to a firm in a negative way, *it can also be beneficial or potentially beneficial in a positive way*
- The outcome of the problem-solving activity is a **solution**
- A decision is a particular selected course of action
- Simon described problem-solving as being made up of four phases:

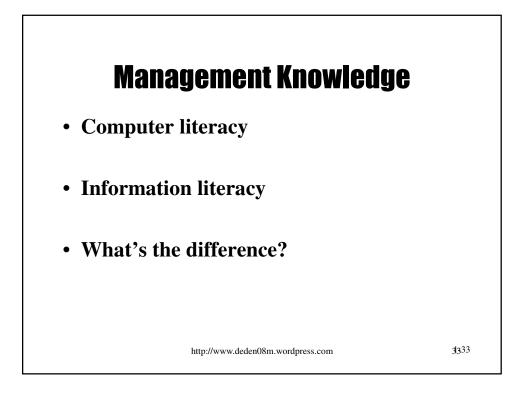
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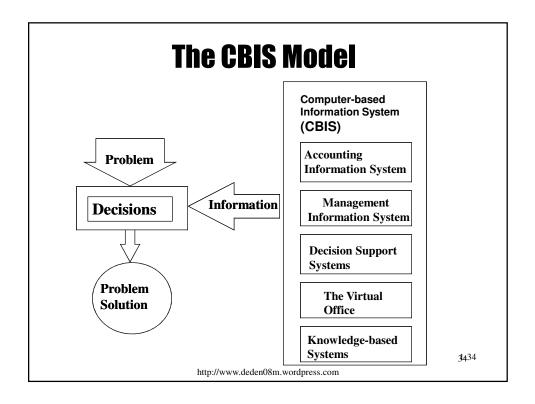
- Intelligence activity
- Design activity
- Choice activity
- Review activity
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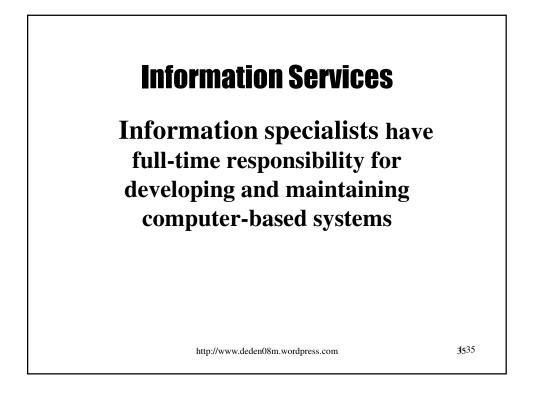


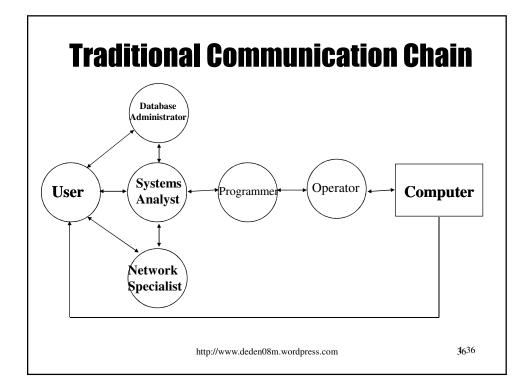


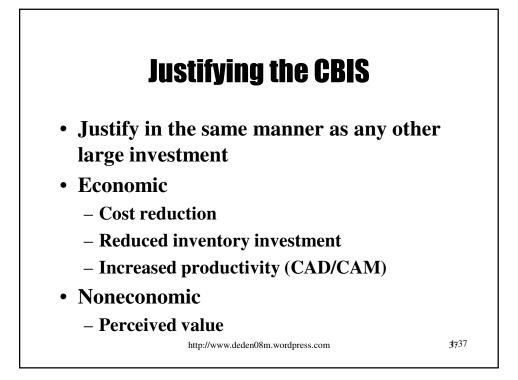


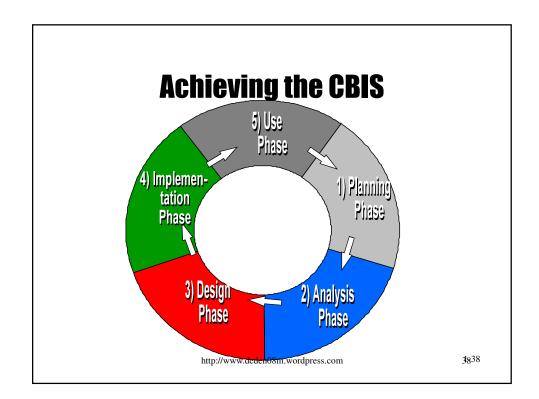


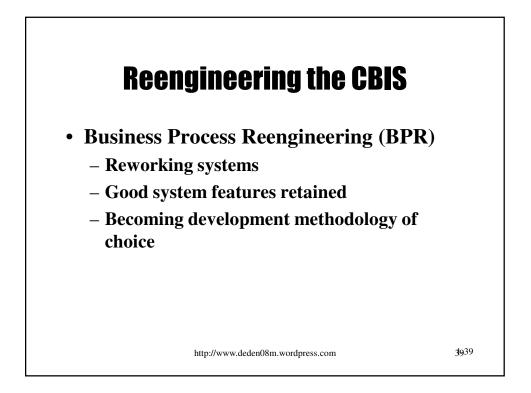












and by the Information Specialist			
Phase	Manager	Information Specialis	
Planning	Define problem	Support	
Analysis	Control	System Study	
Design	Control	Design system	
Implementation	Control	Implement system	
Use	Control —	→ Make available	

THE FUTURE OF INFORMATION TECHNOLOGY

- The future of information technology will be driven by the following two trends:
 - Ongoing cost reductions and increased power of information technologies
 - Convergence between computers and communications
- To take advantage of these new possibilities, managers must learn to incorporate information systems into decision making

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