

Systems That Span Organizational Boundaries

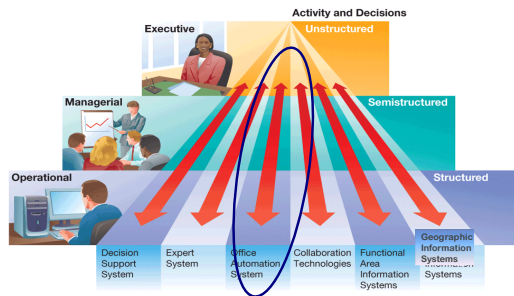


Figure 6.19 Organizational boundary-spanning information systems.
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Office Automation Systems

- ▶ Computerizing and integrating office tasks through technology
- ▶ Use different types of technologies
- ▶ Instead of 'number crunching', they may perform 'document crunching'



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Office Automation Systems

- ▶ Collection of software and hardware used to increase productivity within the office setting through the collection, storage, manipulation of office information needed for accomplishing basic tasks and goals.
- ▶ Examples of Activities
 - ▶ Generate documents or business forms from data stored in other applications or databases
 - ▶ Generate presentations from external data
 - ▶ Automatically send emails to customers or groups
 - ▶ Create custom data entry mechanisms
 - ▶ Maintain and organize data stored in spreadsheets or databases
 - ▶ Create stand-alone programs to automate your office environment

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Office Automation Systems

- ▶ Other supported Activities
- ▶ Scheduling Resources
 - ▶ Examples: electronic calendars with resource management (equipment, facilities, etc.)
- ▶ Communicating
 - ▶ Examples: e-mail, voice mail, videoconferencing and groupware
- ▶ Imaging systems:
 - ▶ convert photographs and charts to a series of dots and transfer the dots in magnetic form to disk storage

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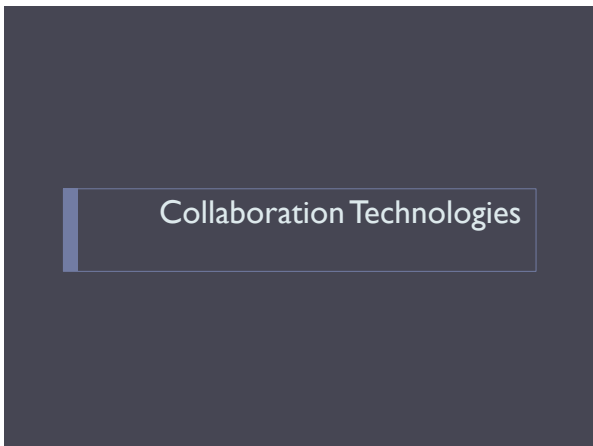


Attributes of Office Automation

- ▶ The rapid growth of office automation systems can be attributed to:
 - ▶ Value of information and information explosion
 - ▶ Increase in office cost and need to improve office productivity
 - ▶ Availability of equipment and skills
 - ▶ Large number of organizations are being benefitted by office automation due to the following advantages related to the human resource information system.

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Collaborative Information Systems

- ▶ e.g., [ThinkTank™](#)
 - ▶ business collaboration tool (group decision support)
 - ▶ brainstorming, organizing, prioritizing, evaluating, identifying and documenting your innovation process.
 - ▶ Can document presented ideas
 - ▶ Groups can be in one room or distributed over long distances

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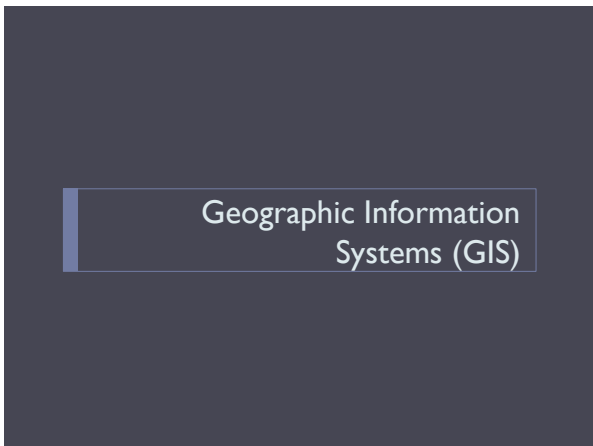


Examples – Collaborative Technology

- ▶ Service applications such as:
 - ▶ [Professional Services - The Future Office \(Microsoft\)](#)
 - ▶ [Retail – The Future of Shopping \(Cisco\)](#)
 - ▶ [Banking – The Future of Banking \(Microsoft\)](#)
 - ▶ [Healthcare – The Future of Healthcare \(Microsoft\)](#)
 - ▶ [OPENPediatrics \(IBM\) – Hospitals Without Walls](#)
 - ▶ [Engineering Design – A Vision for the Future](#)

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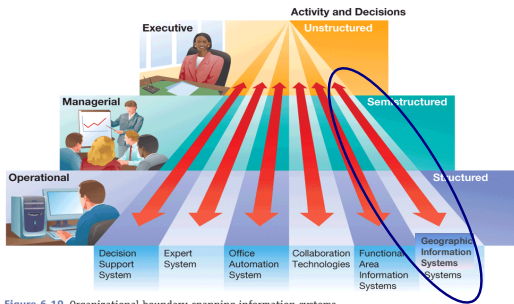
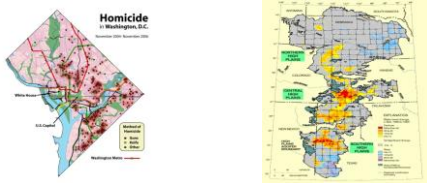


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Geographic Information Systems

- ▶ **Geographic information system:** ties data to physical locations
- ▶ Represents data on a map in different formats
- ▶ May reflect demographic information in addition to geographic
- ▶ May use information from GPS satellites



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Geographic Information Systems

- ▶ Geographic information systems support organizations with answering the “Where” questions
 - ▶ delivery manager may want to know the shortest distance a truck can travel to deliver ordered goods
 - ▶ efficient routes for bussing school children
 - ▶ where to locate police stations
 - ▶ where to drill for oil
 - ▶ sales territories

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