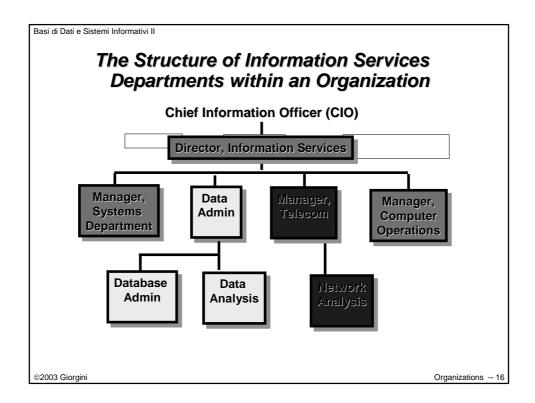


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Information Needs for Organizational Integration, Feedback and Control

Managt. Level	Information Use	Information Requirements
Top Management	Goal setting, long-term plan. strategy return to invest.	External info: new markets, competitors, govt., Internal info: financial reports, long-term trends, what-if info,
Middle Management	objectives def. medium-range planning tactics	Internal info, problem reports, short-term trends,
Lower Management	obj. attainment short-term plan. supervision	Internal info, recent historical data, details on operations, exceptions report
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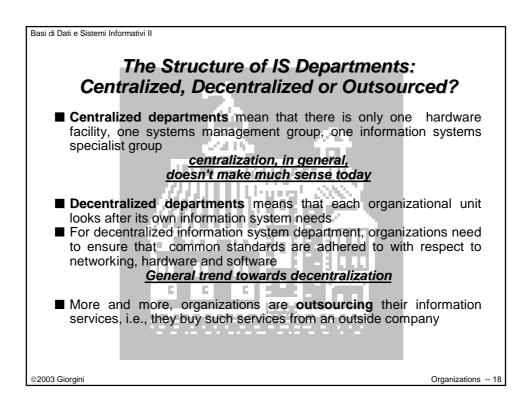
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Information Services Components

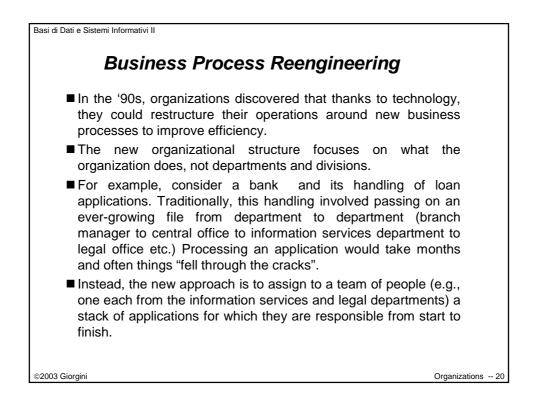
- Operations Centre: Runs computer and communications units; consists of systems programmers, engineers, operators, data entry personnel, couriers; responsible for systems' operation and support
- Systems Department: Interfaces with the rest of the organization and determines what systems are to be built; consists of systems analysts, application programmers, documentation personnel, database designers; responsible for new application development
- Data Administration: Responsible for organizational databases and database design
- Telecommunications Centre: Serves the telecommunication and (micro)computer needs of the organization. Buys, evaluates and installs microcomputers,software and in-house network services. May also handle document storage and retrieval; responsible for infrastructure

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Business Processes	
An organization is more than a collection of subsystems connected through input/output links. An organization's function is determined by business processes which are defined by management, consistently with organizational goals and objectives, and are implemented by all employees.	
Example: Ordering equipment within a large engineering company:	
 Ordering Process 1: The employee who needs the equipment selects a vendor, gets approval from her manager and has her department generate a purchase order Ordering Process 2: The employee gets approval from her manager, has her department generate a memo to purchasing department, which issues a purchase order to the vendor of their choice. 	
What are the advantages and disadvantages	
of each process?	
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Coarse-Grain Models of Organizations

Rational System -- an organization is a collectivity oriented to the pursuit of specific goals and exhibiting a relatively highly formalized social structure

existing global goals and structure

■ Natural System -- an organization is a collectivity whose participants are little affected by the formal structure or official goals but who share a common interest in the survival of the system and who engage in collective activities, informally structured to secure this end

existing global interests

Open System -- an organization is a coalition of shifting interest groups which develop goals by negotiation; the structure of the coalitions, their activities and the outcomes of these activities are strongly affected by environmental factors

everything is local and dynamic

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[Scott87]

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Basi di Dati e Sistemi Informativi II **Problems** 1. The models of organizations shown on slides 3-5 are for production organizations. Give corresponding diagrams for service organizations (e.g., banks). Explain your diagrams with comments, as you would for a program. 2. Describe the organization chart for an organization you are familiar with, or one you can read about from publicly available documentation. 3. Describe a bank as a system of inputs and outputs (see slide 9). Give examples of objectives and feedback mechanisms that might be used to ensure that objectives are met. 4. Describe the information services department of the university. 5. Describe a business process for an organization you are familiar with. Give details about information sources you used. ©2003 Giorgini Organizations -- 22

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Additional Readings
 [Galbraith73] J.R. Galbraith, Designing Complex Organizations, Addison Wesley, 1973. [Hammer90] M. Hammer, "Reengineering Work: Don't Automate, Obliterate", Harvard Business Review, July-August 1990, pp.104- 112. [Mintzberg79] H. MIntzberg, The Structuring of Organizations, Prentice- Hall. [Pfeffer78] Pfeffer, J and Salancik, G., The External Control of Organizations: A Resource Dependency Perspective, Harper and Row, 1978. [Scott87] Scott, W. Organizations: Rational, Natural or Open Systems, Prentice Hall, 2nd edition, 1987.
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