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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

What are the advantages and disadvantages of each process?

### **Business Process Reengineering**

- In the '90s, organizations discovered that thanks to technology, they could restructure their operations around new business processes to improve efficiency.
- ■The new organizational structure focuses on what the organization does, not departments and divisions.
- For example, consider a bank and its handling of loan applications. Traditionally, this handling involved passing on an ever-growing file from department to department (branch manager to central office to information services department to legal office etc.) Processing an application would take months and often things "fell through the cracks".
- Instead, the new approach is to assign to a team of people (e.g., one each from information services and legal departments) a stack of applications for which they are responsible from start to finish.

### 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

 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

[Scott87]

## **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 12). 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.

# **Additional Readings**

- [Galbraith73] J.R. Galbraith, Designing Complex Organizations, Addison Wesley, 1973.
  [Hammer0] M. Hammer, "Reengineering Work: Don't Automate, Obliterate", Harvard Business Review, July-August 1990, pp.104-
- $[{\sf Mintzberg79}] \ {\sf H.} \ {\sf MIntzberg}, \ {\it The Structuring of Organizations} \ , \ {\sf Prentice-}$

