

## Learning objectives (#1)

- □ Define information systems
- □ COMPUTER LITERACY versus INFORMATION SYSTEMS LITERACY
- □ Explain impact of information systems on organization & management

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### Learning objectives (#2)

- □ Compare electronic commerce & electronic business, relationship to internet & digital technology
- ☐ Identify major management challenges to building, using information systems

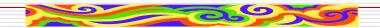
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### Management challenges (Sections)

- Why information systems?
- ☐ Contemporary approaches to information systems
- New role of info systems in organizations
- Learning to use info systems: new opportunities with technology

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## Business Environment (sections) Globalization Industrial economies Transformation of the enterprise \*

## Globalization | Future Success Factor (Globalization) | Management & control (IT) | Competition in world markets | Global work groups (SW Team) | Global delivery systems (Real and Virtual) | \*

## Transformation of Industrial Economies

- ☐ Knowledge- (Info-) based economies
- □ Productivity (System Quality)
- □ New products & services
- ☐ Knowledge as an asset
- □ Time-based competition
- □ Shorter product life
- Turbulent environment
- ☐ Limited employee knowledge base

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## Transformation of enterprise

- □ Flattening
- Decentralization
- ☐ Flexibility
- Location independence
- Low transaction costs
- □ Empowerment (Electric-Firms)
- □ Collaborative work

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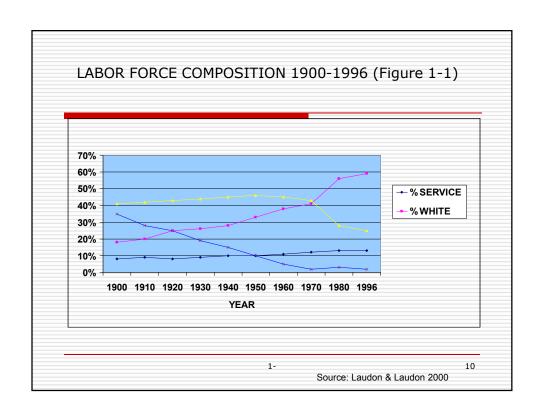
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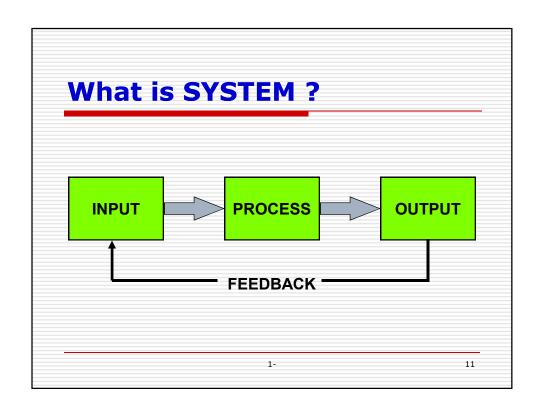
## Knowledge- and informationintense products

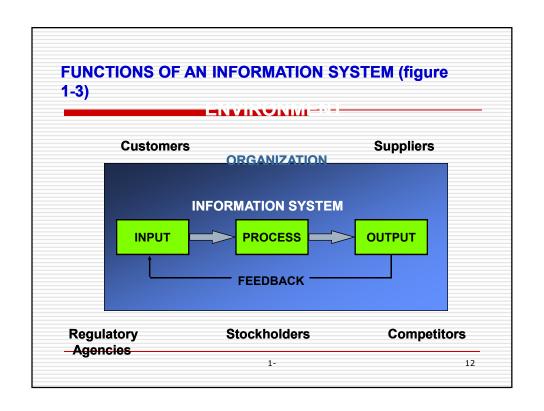
- □ Products that require a great deal of learning & knowledge to produce
- □ Employing Millions of People
- Optimize within Organization and Maximize Firm's Knowledge Resources

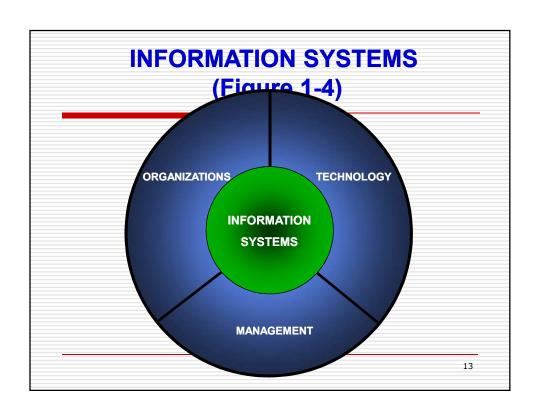
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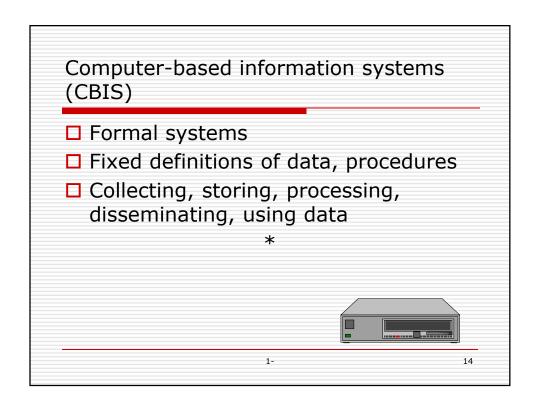
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## A Business Perspective on Information Systems

- ☐ Organizational and Management Solution, based on IT, posed by Env.
- ☐ Information Systems Literacy Computer Literacy
- ☐ SOPs (Standard Operation Procedures)

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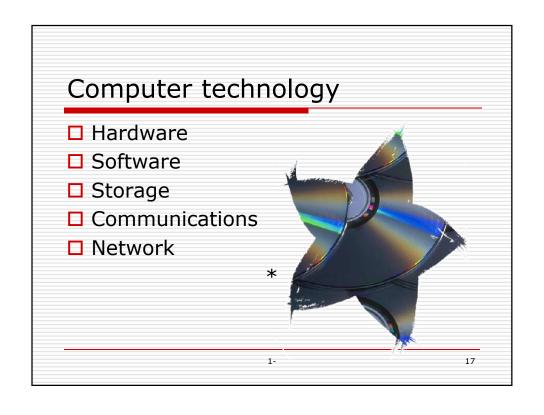
## Major organizational functions (Table 1-2)

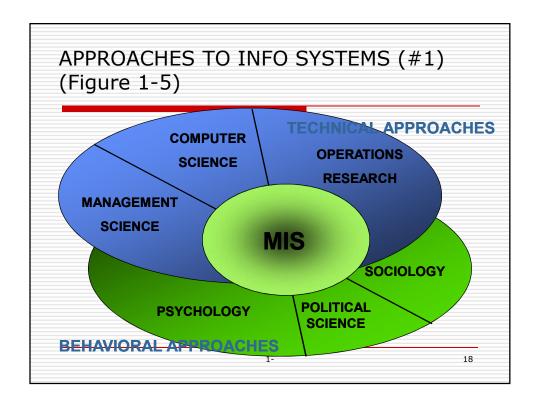
- □ Sales & marketing
- Manufacturing
- □ Finance
- Accounting
- □ Human resources

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## APPROACHES TO INFO SYSTEMS (#2)

- □ Techincal Approach
  - Computer science
  - Management Science
  - Operations Research
- □ Behavioral Approaches
  - Sociologists
  - Psychologists
  - Economists

### Sociotechnical perspective (#1)

Optimize system performance:

Technology & organization mutually adjust to one another
Until fit is satisfactory

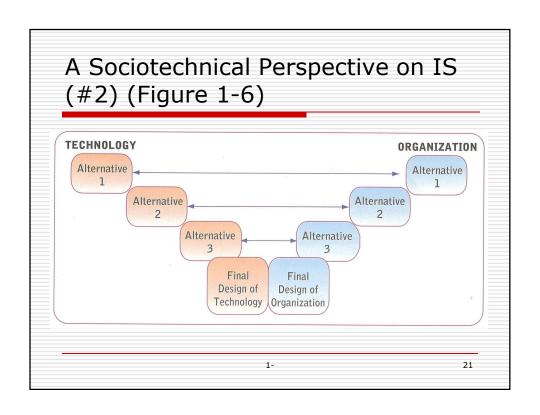
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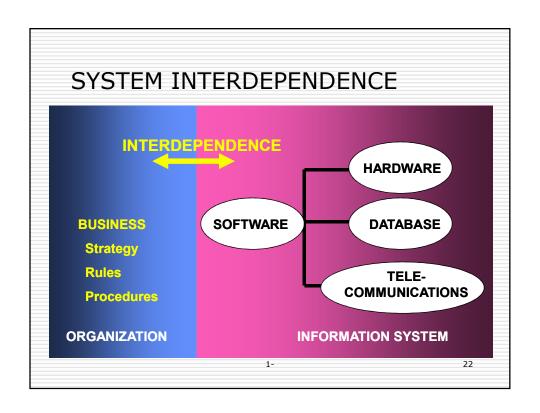


SOURCE: Liker, et al, 1987

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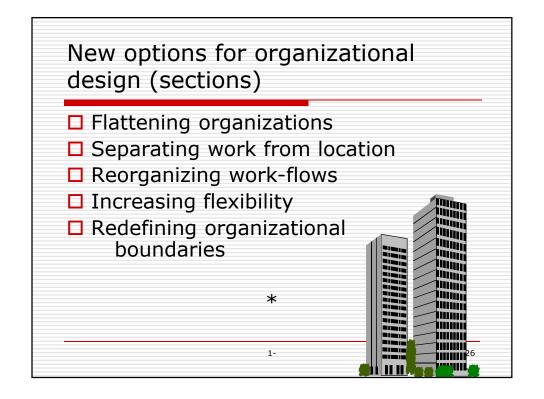


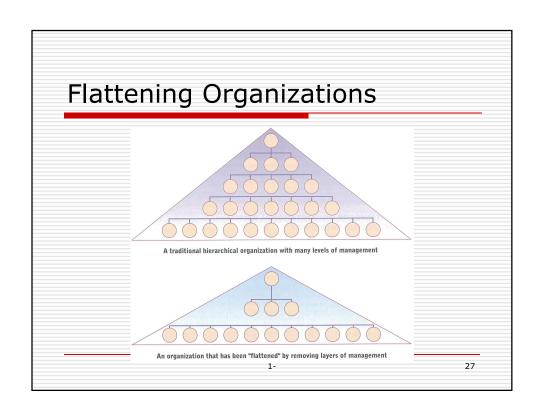


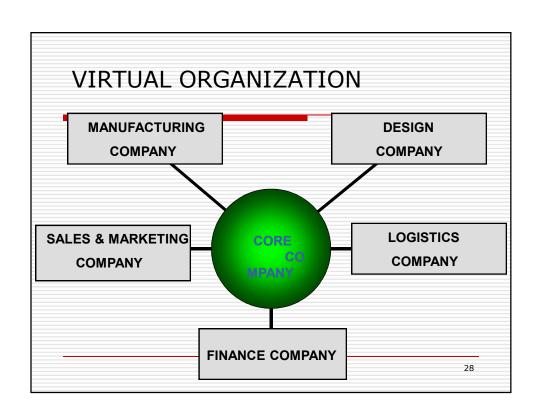
# Scope of info systems 1950s: TECHNICAL CHANGES 60s-70s: MANAGERIAL CONTROL 80s-90s: INSTITUTIONAL CORE ACTIVITIES Growing importance

# Network Revolution & Internet □ Network □ Internet → Platform □ New Business Models

# What you can do on the internet Communicate & collaborate Access information Discuss Obtain information Entertainment Transact business \*







# The changing management process (sections) □ Electronic commerce □ Electronic business □ Electronic market \*

## Electronic Market ☐ Exchange Information, Products, Services, and Payments ☐ Retail (exp. AllBook.com.tw) ☐ Wholesale (exp. ChinaSteel)

