Management Information Systems

Information Systems, Global Business and E-business



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Chapters 1 and 2 (Laudon and Laudon, 2010)

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Chapters 1 and 2 (Laudon and Laudon, 2010)

- Group Term Paper 20%
- Assignments & Participation 10%
- Exam **70**%



Chapters 1 and 2 (Laudon and Laudon, 2010)

Chapters 1 and 2 of Laudon and Laudon (2010) Selected readings on class website

Laudon, K. C. and Laudon, J. P. (2010) Management Information

Systems: Managing the Digital Firm. 11th Edition, Pearson

Education Inc., Upper Saddle River, NJ 07458.





Kenneth C. Laudon Jane P. Laudon

PEARSON

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LEARNING OBJECTIVES

This session seeks to introduce the course and also explain the basic concepts of information systems, the digital firm and e-business. Learning objectives include:

- 1. Understand information systems and how they are used in organizations.
- 2. Describe how Internet technology has changed businesses.
- Identify the various types of information systems in organizations.

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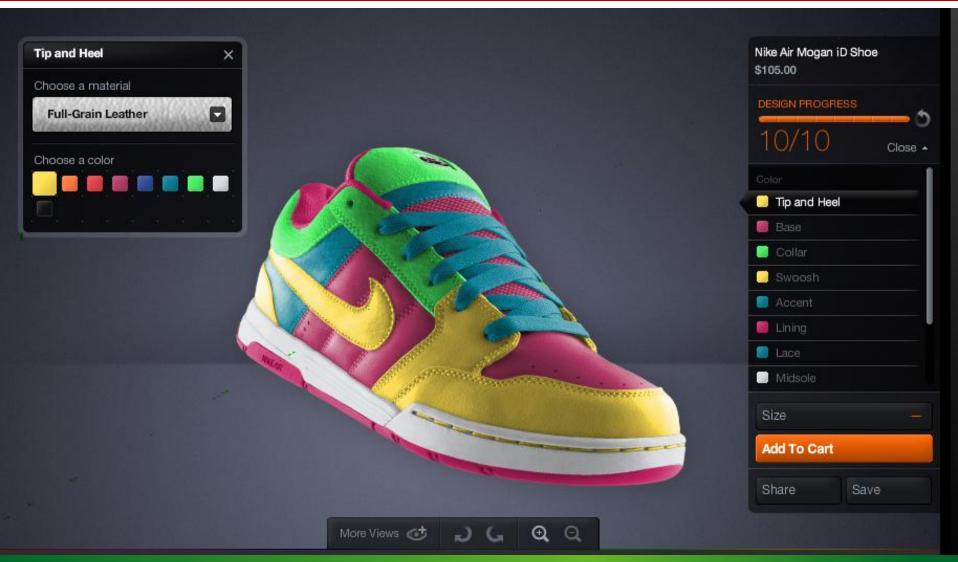








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Osei Kwame Prempeh: One Year Rememberanc...

Journeying over many seas and through many countries we came dear Nana Kwame to this pitiful leave-taking the last gestures by your graveside the futility of words over your quiet remains.

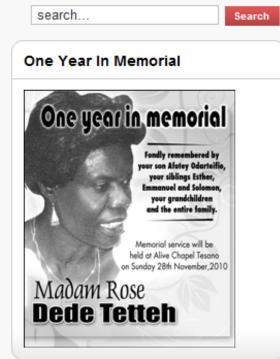
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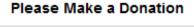
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The Editor of The Spectator, Mr. Merari Alomele, is dead.

Alor, as he was affectionately called, was the author of



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What is an information system?









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What is Information Systems

Information system:

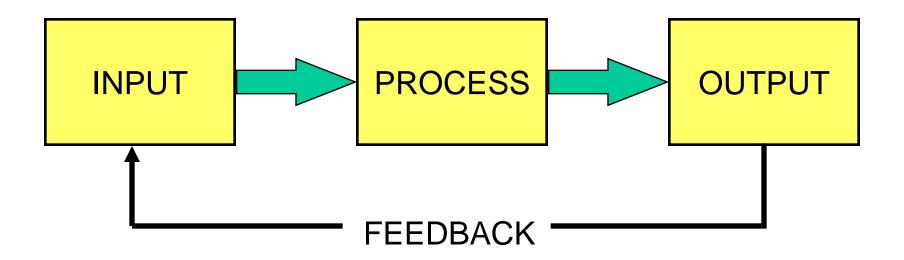
- Set of interrelated components
- Collect, process, store, and distribute information
- Support decision making, coordination, and control

Information System

IT + People + Processes and Policy

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Activities in an Information System



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Perspectives on Information Systems

- Information system: Three activities produce information organizations need
 - Input: Captures raw data from organization or external environment
 - Processing: Converts raw data into meaningful form
 - Output: Transfers processed information to people or activities that use it

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Perspectives on Information Systems

Feedback:

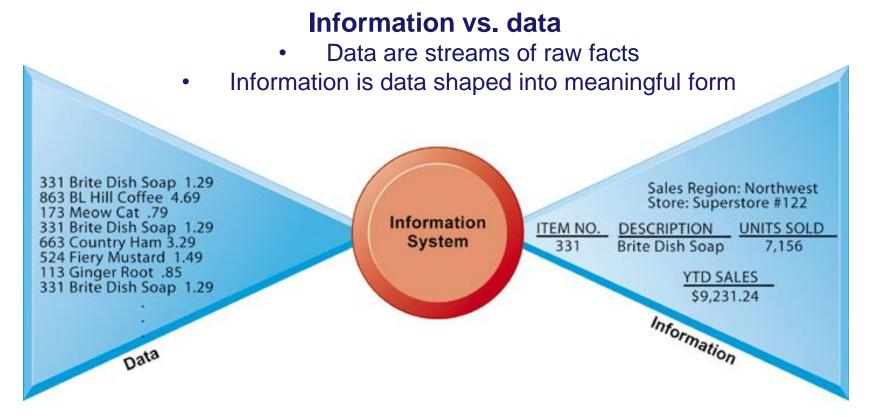
 Output returned to appropriate members of organization to help evaluate or correct input stage

Computer/Computer program vs. information system

 Computers and software are technical foundation and tools, similar to the material and tools used to build a house

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Data and Information



Raw data from a supermarket checkout counter can be processed and organized to produce meaningful information, such as the total unit sales of dish detergent or the total sales revenue from dish detergent for a specific store or sales territory.

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Business Processes and Information Systems

Business processes:

- Workflows of material, information, knowledge
- Sets of activities, steps
- May be tied to functional area or be crossfunctional
- Businesses: Can be seen as collection of business processes
- Business processes may be assets or liabilities

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Business Processes and Information Systems

Examples of functional business processes

- Manufacturing and production
 - Assembling the product
- Sales and marketing
 - Identifying customers
- Finance and accounting
 - Creating financial statements
- Human resources
 - Hiring employees

Types of Information Systems

- 1. Executive Support System (ESS)
- 2. Decision Support Systems (DSS)
- 3. Management Information Systems (MIS)
- 4. Knowledge Work Systems (OS)
- 5. Office Systems (OS)
- 6. Transaction Process Systems (TPS)

Strategic-Level

Management-Level

Level

Knowledge-Level

Leve

Operational-Level

Plan and Project, Forecast

- Senior Managers

Decision Analysis; Summary Reports

Staff Managers & Middle Managers

Models; Graphics;
Documents & Mail
-Professionals &
Clerical Workers

Sorting; lists; Detailed Reports; Pay Slips - Operations Personnel; Supervisors

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Systems that Span the Business

SAP ERP:

Human Resource Systems - Leave Request Example

Executive Support Systems – Sales Planning and Forecasting

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Types of Business Information Systems

Transaction processing systems

- Perform and record daily routine transactions necessary to conduct business
 - Examples: sales order entry, payroll, shipping
- Allow managers to monitor status of operations and relations with external environment
- Serve operational levels
- Serve predefined, structured goals and decision making

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Types of Business Information Systems

Management information systems

- Serve middle management
- Provide reports on firm's current performance, based on data from TPS
- Provide answers to routine questions with predefined procedure for answering them
- Typically have little analytic capability

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Types of Business Information Systems

Decision support systems

- Serve middle management
- Support nonroutine decision making
 - Example: What is impact on production schedule if December sales doubled?
- Often use external information as well from TPS and MIS
- Model driven DSS
 - Voyage-estimating systems

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Executive support systems

- Support senior management
- Address nonroutine decisions requiring judgment, evaluation, and insight
- Incorporate data about external events (e.g. new tax laws or competitors) as well as summarized information from internal MIS and DSS
- Example: ESS that provides minute-to-minute view of firm's financial performance as measured by working capital, accounts receivable, accounts payable, cash flow, and inventory

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- Systems from a constituency perspective
 - Transaction processing systems:
 supporting operational level employees
 - Management information systems and decision-support systems: <u>supporting</u> managers
 - Executive support systems: <u>supporting</u>
 <u>executives</u>

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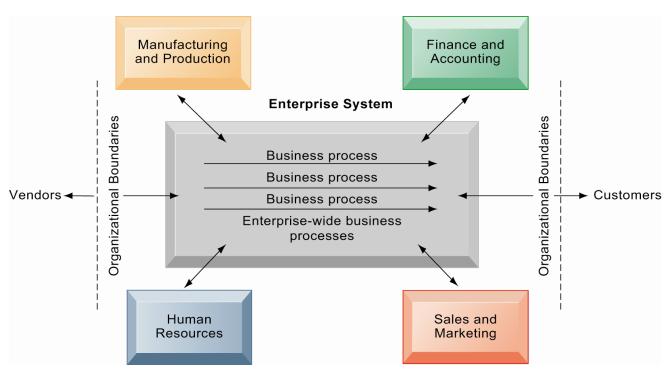
Systems That Span the Enterprise

Enterprise applications

- Span functional areas
- Execute business processes across firm
- Include all levels of management
- Four major applications:
 - a) Enterprise systems
 - b) Supply chain management systems
 - c) Customer relationship management systems
 - d) Knowledge management systems

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Enterprise Systems



Enterprise systems integrate the key business processes of an entire firm into a single software system that enables information to flow seamlessly throughout the organization. These systems focus primarily on internal processes but may include transactions with customers and vendors.

Figure 2-8

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Systems That Span the Enterprise

Enterprise systems

- Collects data from different firm functions and stores data in single central data repository
- Resolves problem of fragmented, redundant data sets and systems
- Enable:
 - Coordination of daily activities
 - Efficient response to customer orders (production, inventory)
 - Provide valuable information for improving management decision making

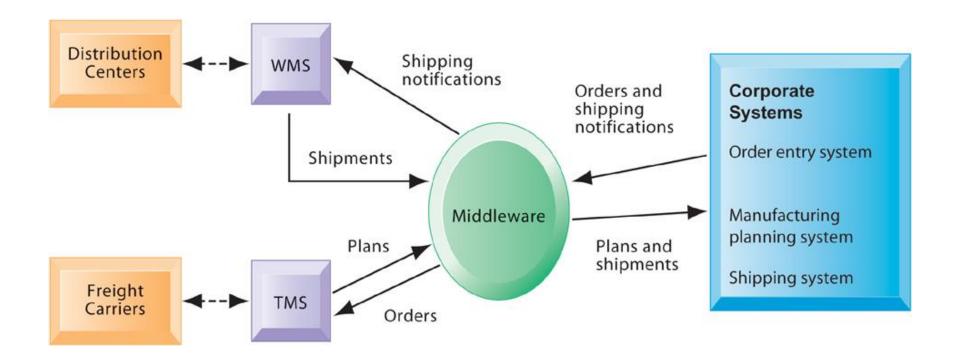
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Systems That Span the Enterprise

- Supply chain management systems
 - Manage firm's relationships with suppliers
 - Share information about
 - Orders, production, inventory levels, delivery of products and services
 - Goal: Right amount of products to destination with least amount of time and lowest cost

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Example of a Supply Chain Management System



Customer orders, shipping notifications, optimized shipping plans, and other supply chain information flow among Haworth's Warehouse Management System (WMS), Transportation Management System (TMS), and its back-end corporate systems.

Figure 2-9

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Systems That Span the Enterprise

Customer relationship management systems:

- Provide information to coordinate all of the business processes that deal with customers in sales, marketing, and service to optimize revenue, customer satisfaction, and customer retention
- Integrate firm's customer-related processes and consolidate customer information from multiple communication channels

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So what is the DIGITAL FIRM?









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A firm which uses information systems to become networked and decentralized and to digitalize their business processes and foster innovation and creativity.









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- Electronic Commerce: Sharing business information, managing business relationships and facilitating transactions with Internet technology. (linking buyers and sellers).
- Electronic Business: Executing all the firm's business processes with Internet technology. (sales, finance, human resources, manufacturing)
- Intranet: Business builds private, secure network based on Internet technology
- Extranet: Extension of intranet to authorized external users

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Systems That Span the Enterprise

Intranets:

- Internal networks built with same tools and standards as Internet
- Used for internal distribution of information to employees
- Typically utilize private portal providing single point of access to several systems
- May connect to company's transaction systems

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Systems That Span the Enterprise

Extranets:

- Intranets extended to authorized users outside the company
- Expedite flow of information between firm and its suppliers and customers
- Can be used to allow different firms to collaborate on product design, marketing, and production

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Systems That Span the Enterprise

E-business (Electronic business):

- Use of digital technology and Internet to execute major business processes in the enterprise
- Includes e-commerce (electronic commerce):
 - Buying and selling of goods over Internet

E-government:

 The application of Internet and networking technologies to digitally enable government and public sector agencies' relationships with citizens, businesses, and other arms of government

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The Role of Information Systems in Business Today

- Growing interdependence between ability to use information technology and ability to implement corporate strategies and achieve corporate goals
- Business firms invest heavily in information systems to achieve six strategic business objectives:
 - Operational excellence
 - New products, services, and business models
 - Customer and supplier intimacy
 - Improved decision making
 - Competitive advantage
 - Survival

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The Role of Information Systems in Business Today

Operational excellence:

- Improvement of efficiency to attain higher profitability
- Information systems, technology an important tool in achieving greater efficiency and productivity
- Nike ID, BMW USA linking the website with suppliers

New products, services, and business models:

 Business model: describes how company produces, delivers, and sells product or service to create wealth

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The Role of Information Systems in Business Today

Improved decision making

- Without accurate information:
 - Managers must use forecasts, best guesses, luck
 - Leads to:
 - Overproduction, underproduction of goods and services
 - Misallocation of resources
 - Poor response times
 - Poor outcomes raise costs, lose customers
- Example: www.ibrokerghana.com check and manage your shares online.

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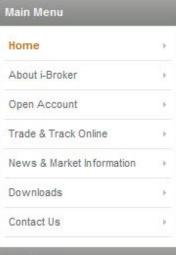
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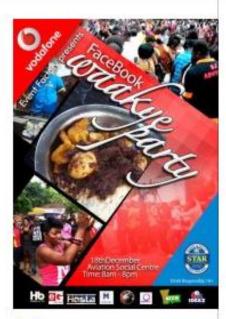
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The Dele of Information Customs in Dusiness Tesley.

Customer and Supplier Intimacy:

- Customers who are served well become repeat customers who purchase more.
- Close relationships with suppliers result in lower costs.
 - Cliq from Expresso and Fidelity Bank use facebook to extend customer service





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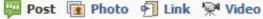
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Cobby Richboy Maestro don't venture

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The Information Systems Function in Business

Information systems department:

- Formal organizational unit responsible for information technology services
- Includes programmers, systems analysts, project leaders, information systems managers
- Often headed by chief information officer (CIO)

End-users:

Representatives of other departments, for whom applications are developed

Information Technology Investment

Considering the context of a developing country like Ghana, is the internet a strategic choice for every firm or otherwise, **should every firm do business online**?



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