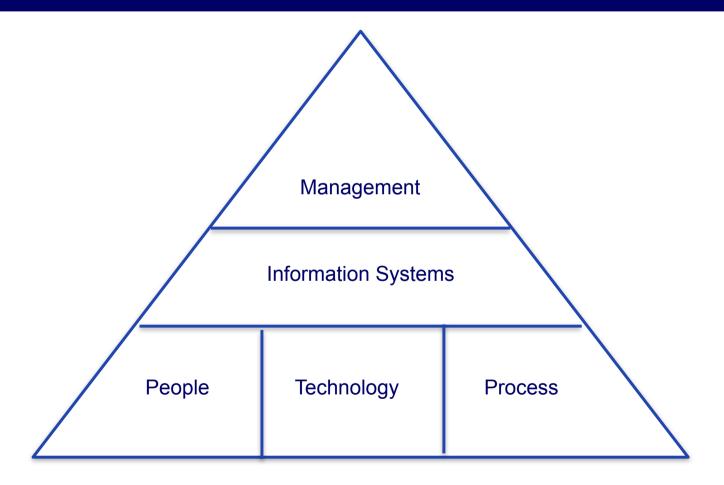


Chap 1 Why Business need IT



Dr. Yeffry Handoko Putra, S.T, M.T, CISA







....

- IS must be managed as critical resource
- **❖ IS** enable change in the way people work together
- IS are part of almost every aspect of business
- **❖ IS enable or inhibit business opportunities and new strategies**
- IS can be used to combat business chalenges from competitors



Assumptions about Management		
Planning	Manager think through their goals and action in advance. Their action are usually based on some method, plan, or logic, rather than a bunch of gut feeling	
Organizing	Manager coordinate the human and material resources of the organization. The effectiveness of an organization depend on its ability to direct its resources to attain its goals	
Leading	Manager direct and influence subordinates, getting other to perform essential tasks. By establishing the proper atmosphere, they help their subordinates do their best	
Controlling	Managers attempt to assure that the organization is moving toward goal. If part of their organization is on the wrong track, managers try to find out why and set things right	

Source: James A.F. Stoner, Management, 2nd ed, Prentice Hall 1982

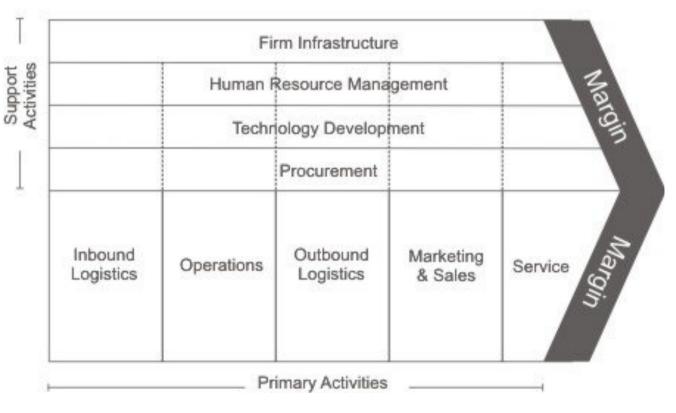
Assumptions of Business

Function View

Executive Management

Information flow
Accounting
Operators
Marketing
Sales and
Support

Process View



Source: M. Porter, Competitive Advantage: Creating and sustaining superior performance (New York: The Free Press, 1985, 1998)

Information Technology's Impact on Business Operations

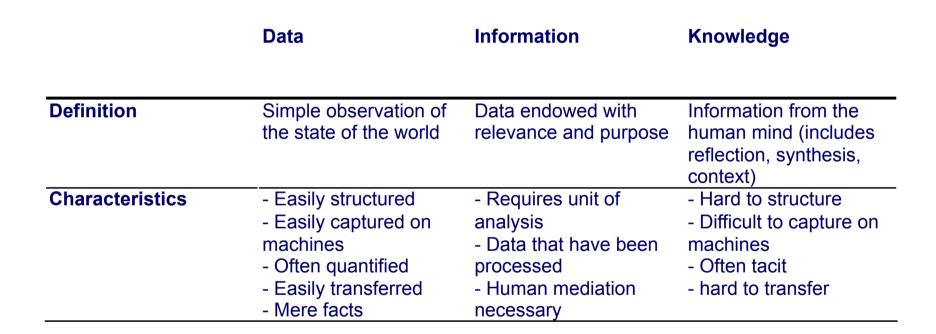
COMMON DEPARTMENTS IN AN ORGANIZATION

ACCOUNTING		MARKETING		OPERATIONS MANAGEMENT
	HUMAN RESOURCES		PRODUCTION MANAGEMENT	
FINANCE		SALES		MANAGEMENT INFORMATION SYSTEMS



Functional Area	Business Process
Manufacturing and production	Assembling the product Checking for quality Producing bills of materials
Sales and marketing	Identifying customers Making customers aware of the product Selling the product
Finance and accounting	Paying creditors Creating financial statements Managing cash accounts
Human resources	Hiring employees Evaluating employees' job performance Enrolling employees in benefits plans

Assumptions of Information System



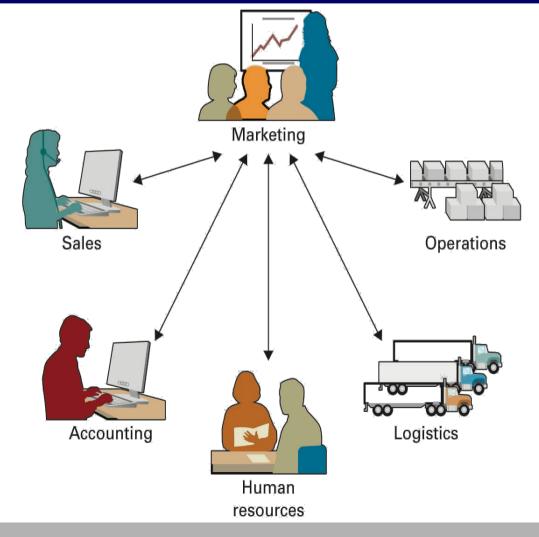
Source: Thomas Davenport, Information Ecology (New York: Oxford University Press, 1997)

Information Characteristic across hierarchical level

	Top Management	Middle Management	Supervisory and lower-level Management
Time Horizon	Long years	Medium : weeks, months, years	Short: day to day
Level of Detail	Highly aggregated Less accurate More predictive	Summarized Integrated Often financial	Very detailed Very accurate Often nonfinancial
Orientation	Primarily external	Primarily internal with limited external	Internal
Decision	Extremely judgmental Uses creativity and analytical skills	Relatively judgmental	Heavy reliance on rules

Information Technology's Impact on Business Operations

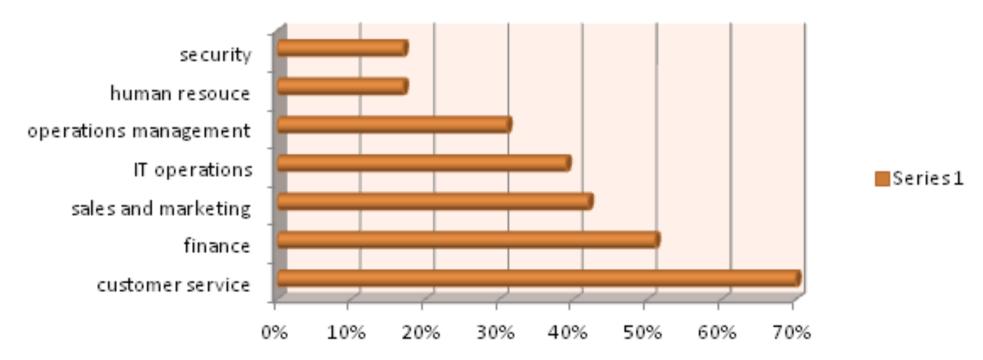
- Organizations typically operate by functional areas or functional silos
- Functional areas are interdependent



Information Technology's Impact on Business Operations



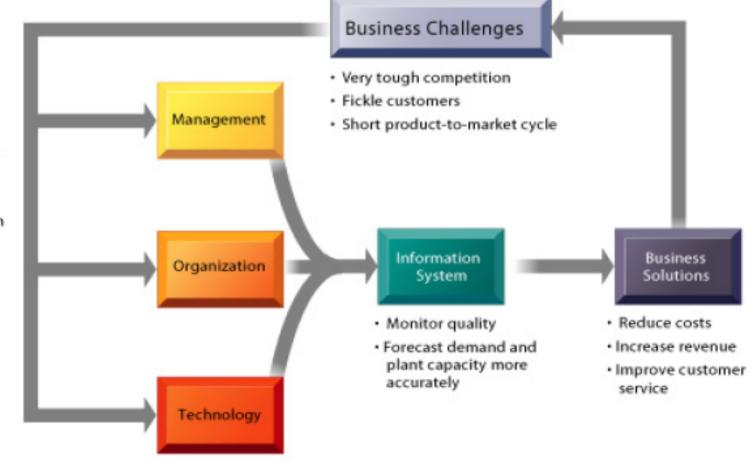
Business Functions Receiving The Greatest Benefits from Information Technology



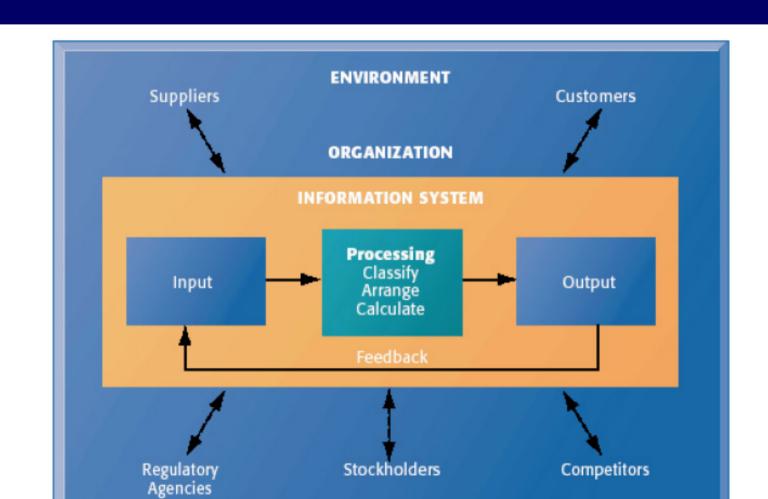
Management of Information System (Imagine when each componet not in good relation)

- Analyze market trends
- Monitor quality, efficiency, and costs
- Redesign production and supplier processes

- · Deploy Powerway
- Deploy Global Supplier Portal
- Deploy Integrated Volume Planning System



FUNCTION OF INFORMATION SYSTEM



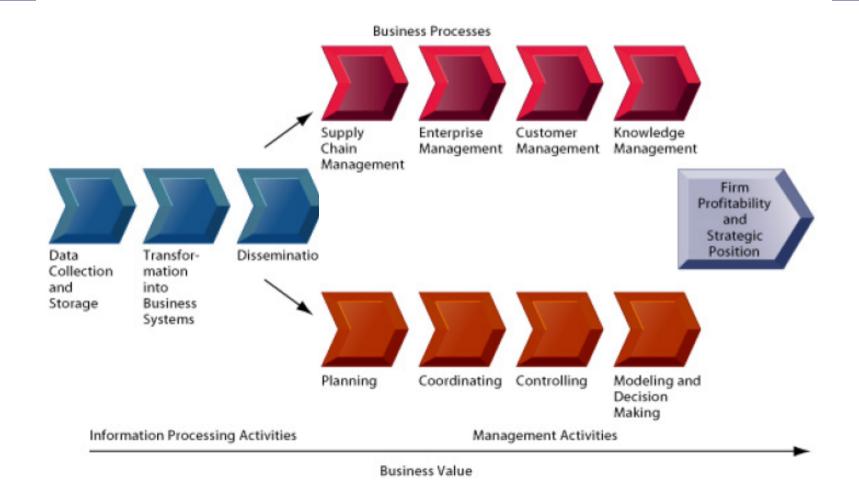




- Complete Data
- Accurate Data
- Precise Data
- Understandable Output
- Timely Output
- Relevant Output
- Meaningful Output
- User friendly Operation
- Error Resistant Operation
- Authorize Use
- Protected System and Operation

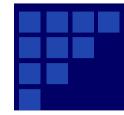
Ref: Gordon B. Davis

Business Perspective on Information Systems





- Data: raw facts that describe the characteristic of an event
- Information : data converted into a meaningful and useful context
- Business Intelligent. E.g. Customer Relationship Management
- Knowledge . E.g. Knowledge Management System

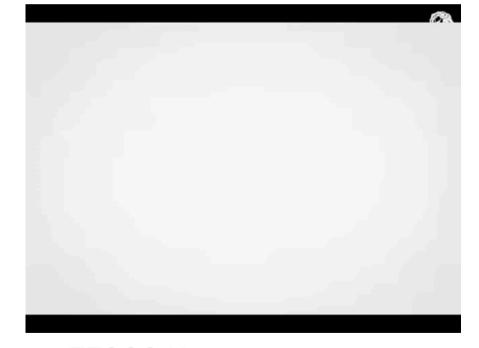


IT Proposed Virtual Business



Virtual Shop by TESCO.COM

Gatwick, Airport, UK. November 2011

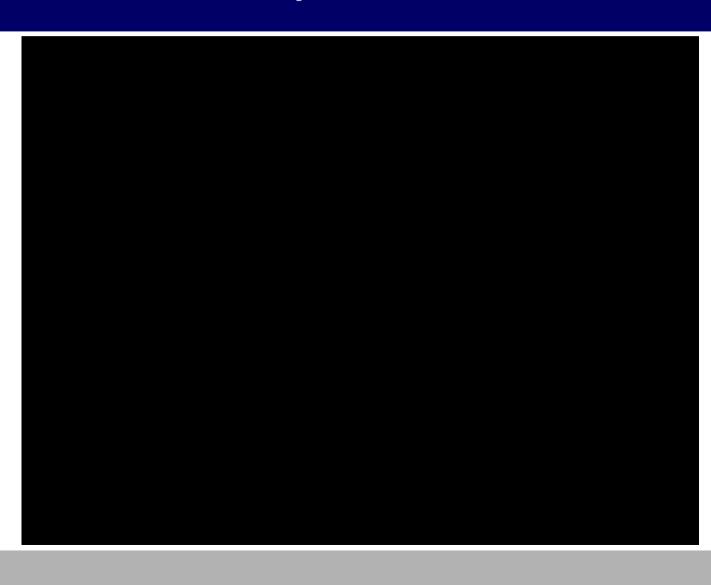


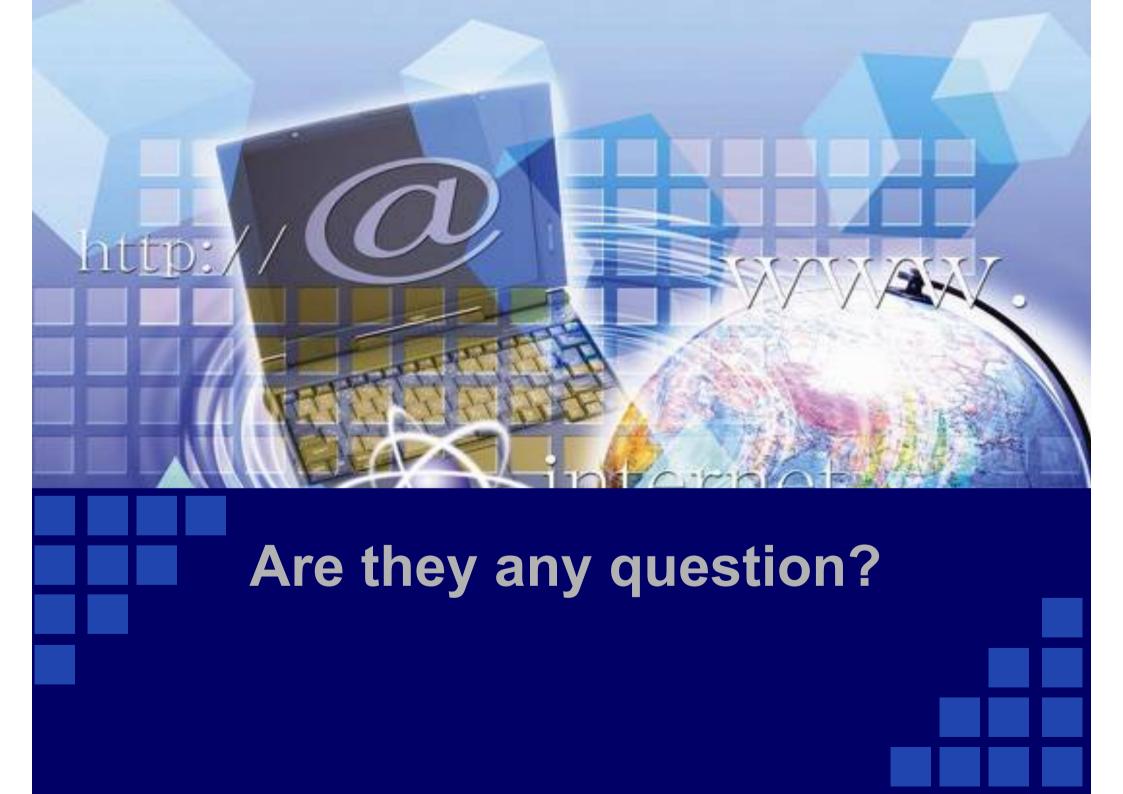
TESCO Homeplus, Virtual Subway Shop South Korea, 2010



Virtual Shop: Social Behavior



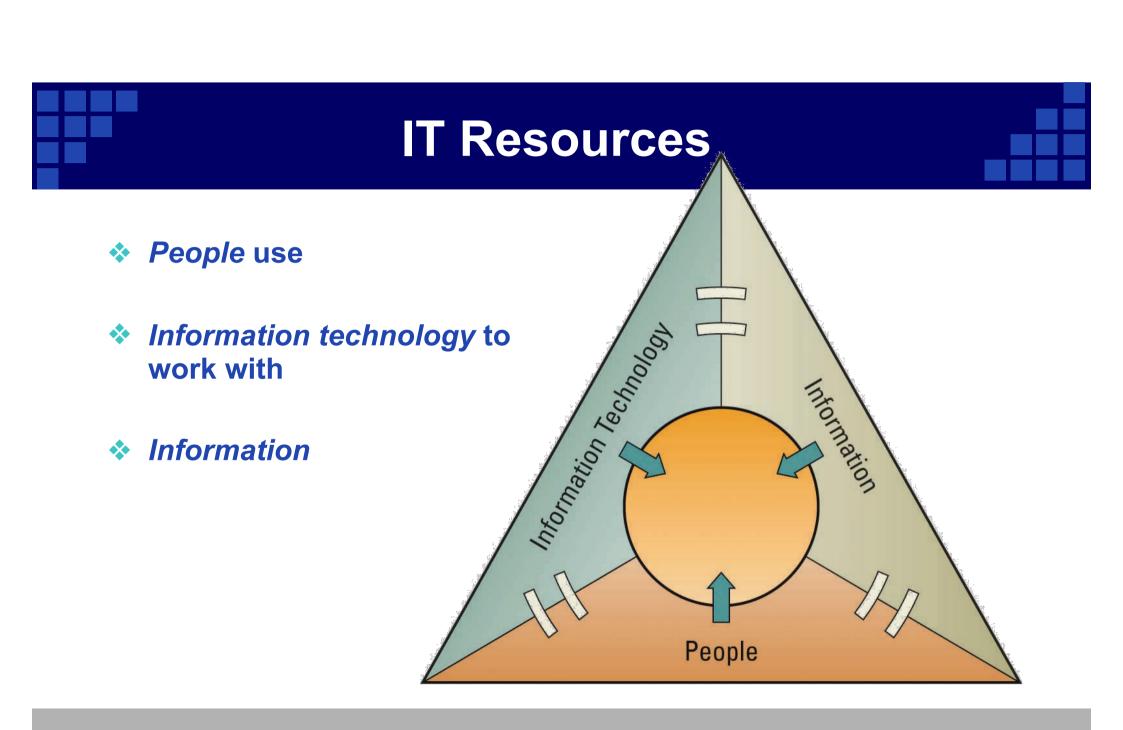






Ref. [shim] chap 1& 2

UNIVERSITAS KOMPUTER INDONESIA



- Chief Information Officer (CIO) oversees all uses of IT and ensures the strategic alignment of IT with business goals and objectives
- Broad CIO functions include:
 - Manager ensuring the delivery of all IT projects, on time and within budget
 - Leader ensuring the strategic vision of IT is in line with the strategic vision of the organization
 - Communicator building and maintaining strong executive relationships

- Chief Technology Officer (CTO) responsible for ensuring the throughput, speed, accuracy, availability, and reliability of IT
- Chief Security Officer (CSO) responsible for ensuring the security of IT systems
- Chief Privacy Officer (CPO) responsible for ensuring the ethical and legal use of information
- Chief Knowledge Office (CKO) responsible for collecting, maintaining, and distributing the organization's knowledge

- (CInformationO) Ensure strategic alignment
- (CTechnologyO) Proper equipment/software
- (CSecurityO) Protect from viruses & hackers
- (CPrivacyO) restrict access to private info
- (CKnowledgeO) databases and AI systems

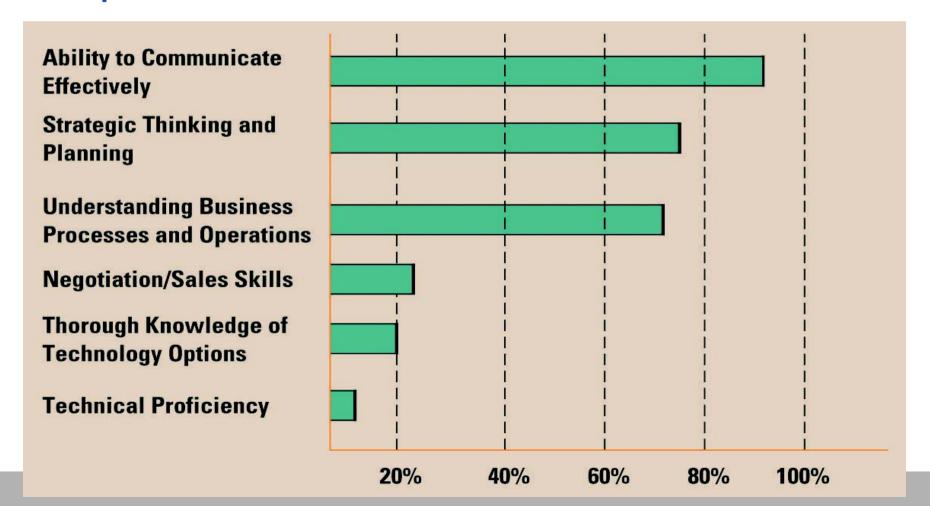
What concerns CIOs the most

CIO's Concerns	Percentage
Enchancing customer satisfaction	94%
Security	92
Technology evaluation	89
Budgeting	87
Staffing	83
ROI analysis	66
Building new applications	64
Outsourcing hosting	45

Average CIO compensation by industry

Industry	Average CIO Compensation
Wholesale/Retail/Distribution	\$243,304
Finance	\$210,547
Insurance	\$197,697
Manufacturing	\$190,250
Medical/Dental/Health Care	\$171,032
Government	\$118,359
Education	\$93,750

Skills pivotal for success in executive IT roles



Why we need MIS majors

- Business personnel possess expertise in functional areas such as marketing, accounting, and sales
- IT personnel have the technological expertise
- This typically causes a communications gap between the business personnel and IT personnel
- MIS Majors bridge the gap.

Improving Communications

- Business personnel must seek to increase their understanding of IT –Why?
- IT personnel must seek to increase their understanding of the business Why?
- It is the responsibility of the CIO to ensure effective communication between business personnel and IT personnel