The Modern Organization in the Global, Web-Based Environment

Introduction to Information System



Learning Objectives

- Describe business processes and discuss business process
- management.
- Differentiate among data, information, and knowledge.
- Differentiate between information technology architecture and information technology infrastructure.
- Describe the global business environment and the new information technology infrastructure.
- Discuss the relationships among business pressures, organizational responses, and information systems.

Topic

- Business Processes and Business Process Management
- Information Systems: Consept and Definitions
- The Global, Web Based Platform
- Business Pressures, Organizational Responses, and IT Support
- Why Are Information Systems Important to Me?



Studi Kasus

Pemanfaatan Teknologi Informasi



Business Processes and Business Process Management

- Is a collection of related activities that produce a product or a service of value to the organization, its business partners, and/or its customers
- A process has inputs and outputs, and its activities can be measured
- Many processes cross functional areas in an organization, such as product development, which involves design, engineering, manufacturing, marketing, and distribution



TABLE 1.1 Examples of Business Processes

Accounting Business Processes

- Accounts payable
- · Accounts receivable
- · Bank account reconciliation
- Cash receipts
- Invoice billings
- Petty cash
- Month-end close
- Virtual close

Finance Business Processes

- Account collection
- · Bank loan applications
- Business forecasts
- Customer credit approval and credit terms
- · Property tax assessments
- · Stock transactions
- · Financial cash flow reports

Marketing Business Processes

- · After-sale customer follow-up
- Collection of sales tax
- · Copyrights and trademarks
- Customer satisfaction surveys
- Customer service contracts
- Customer complaint handling
- Returned goods from customers
- Sales leads
- · Sales order entry
- Sales training
- Trade shows
- Warranty and service policies

Production/Operations Management Business Processes

- Bill of materials
- · Manufacturing change orders

- Master parts list and files
- · Packing, storage, and distribution
- Physical inventory procedures
- Purchasing procedures
- Quality control for finished goods
- · Quality assurance audit procedure
- · Receiving, inspection, and stocking of parts and materials
- Shipping and freight claims
- · Vendor selection, files, and inspections

Human Resources Business Processes

- · Disabilities employment policies
- · Employee hiring policies
- · Employee orientation
- · Family and medical leave act
- · Files and records management
- Health care benefits
- Pay and payroll
- Performance appraisals and salary adjustments
- Resignations and terminations
- Training/tuition reimbursement
- · Travel and entertainment
- · Workplace rules and guidelines
- Workplace safety

Management Information Systems Business Processes

- · Antivirus control programs
- · Computer security incident reporting
- · Computer user/staff training
- Disaster recovery procedures
- · Electronic mail policy
- · Internet use policy
- · Service agreements and emergency services
- User workstation standards
- Use of personal software

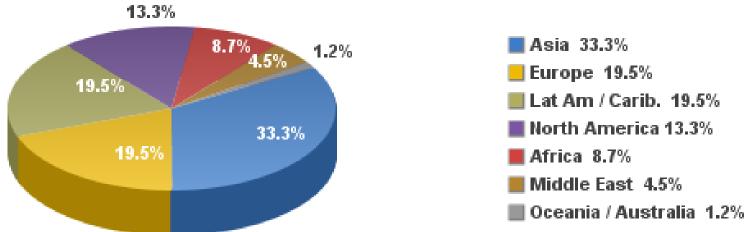




Latar Belakang



Facebook Subscribers in the World by Regions - June 2016



Source: Internet World Stats - www.internetworldstats.com/facebook.htm

Basis: 1,679,433,530 Internet users on June 30, 2016

Copyright © 2016, Miniwatts Marketing Group



facebook's population

ranked 3rd in the world.

1. China 1,336,450,000 © 6. Brazil 192,651,000

2. India 1,178,436,000 **© 7. Pakistan** 169,010,500

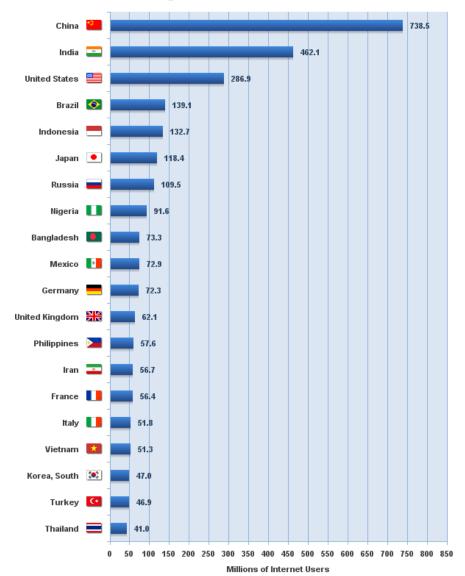
3. Facebook 400,000,000 8. Bangladesh 162,221,000

4. United States 308,898,000 9. Nigeria 154,729,000

5. Indonesia 231,369,500 = 10. Russia 141,927,297

Data Source: Wikipedia Design: TechXav / Zhou Tong

TOP 20 INTERNET COUNTRIES - 2017 With the Highest Number of Internet Users

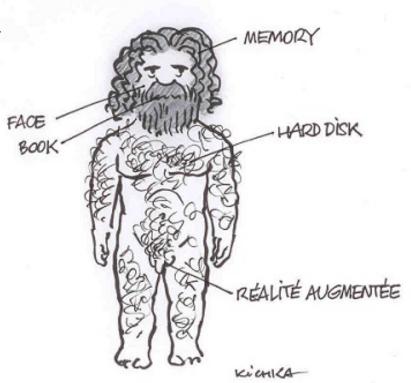




Homo Conexus

- You are the most connected generation in history
- You practice continuous computing
- You are surrounded by a personal, movable information network

HOMO CONEXUS





Personal movable information network



And... Laptop in briefcase!

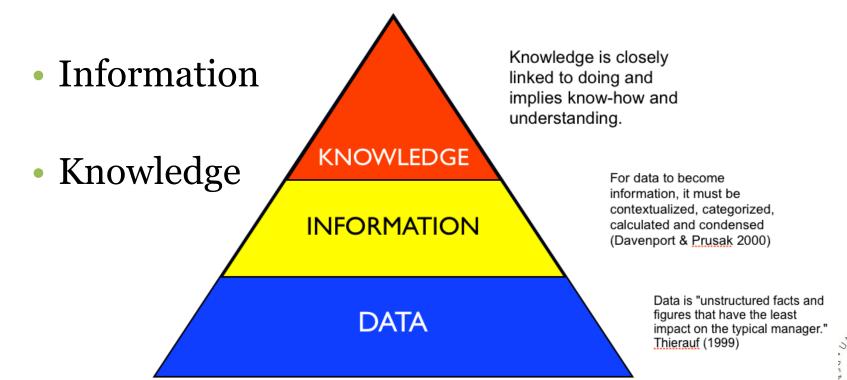


Information Systems: Concepts & Definitions



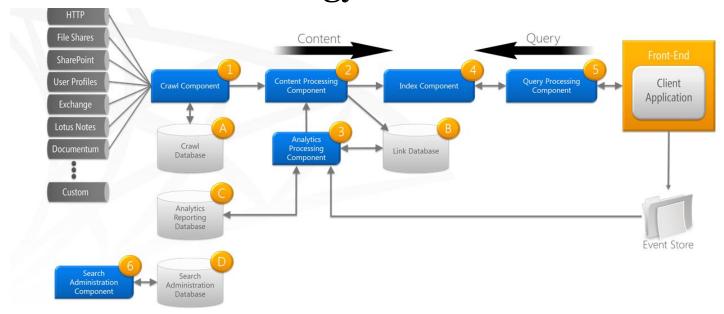
Information Systems: Concepts & Definitions

Data item



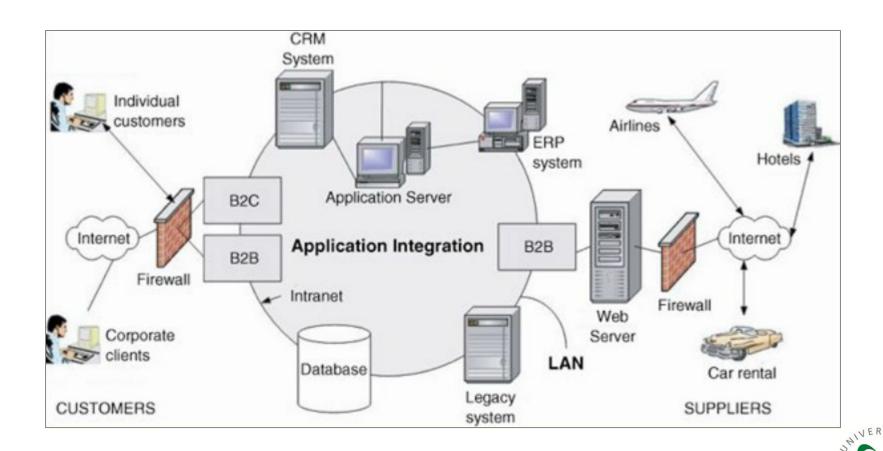
Information Systems: Concepts & Definitions

- Information Technology Architecture
- Information Technology Infrastructure

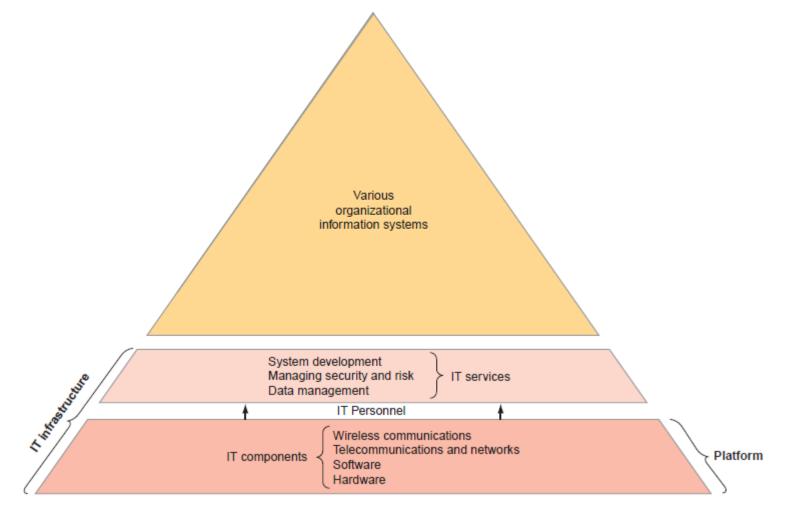




IT Architecture of Online Travel Agency



IT Components, IT Platform, IT Services, and IT Infrastructure



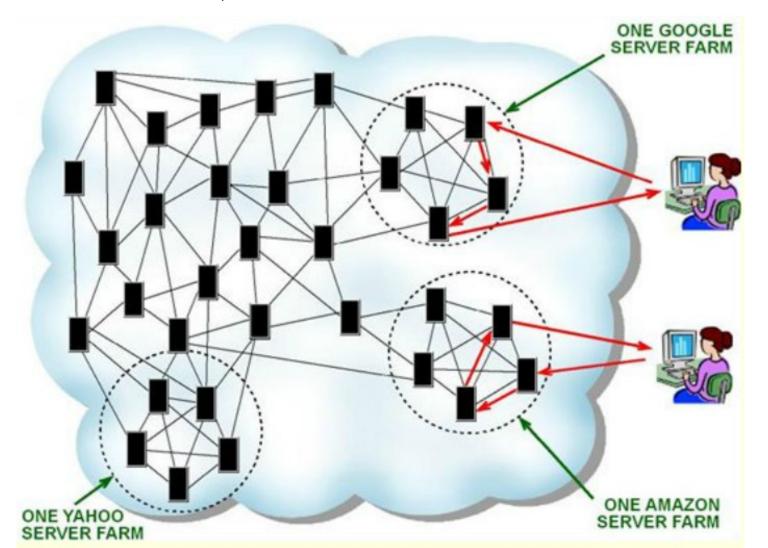


The Global, Web-Based Platform

- Best represented by the Internet and the World Wide Web
- Enables us to connect, compute, communicate, collaborate, and compete everywhere and anytime
- Operates without regard to geography, time, distance, and language



The Global, Web-Based Platform





The Stages of Globalization (From Thomas Friedman in The World is Flat)



- Globalization 1.0
 (1492 1800)
- Globalization 2.0
 (1800 2000)
- Globalization 3.0 (2000 – present)

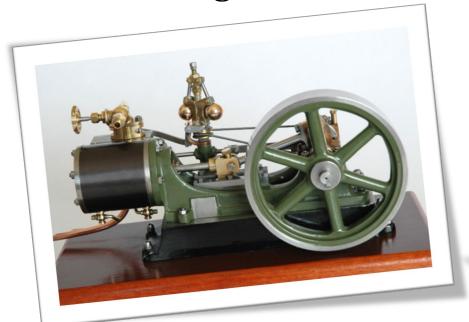


Globalization 1.0



Globalization 2.0 (first half)

Steam Engine





Railroad



Globalization 2.0 (second half)



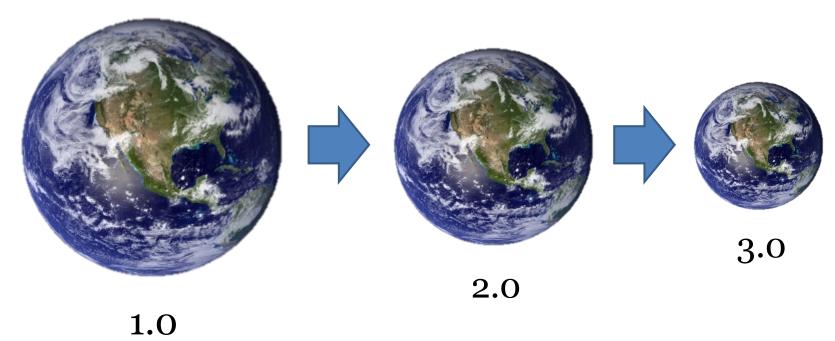






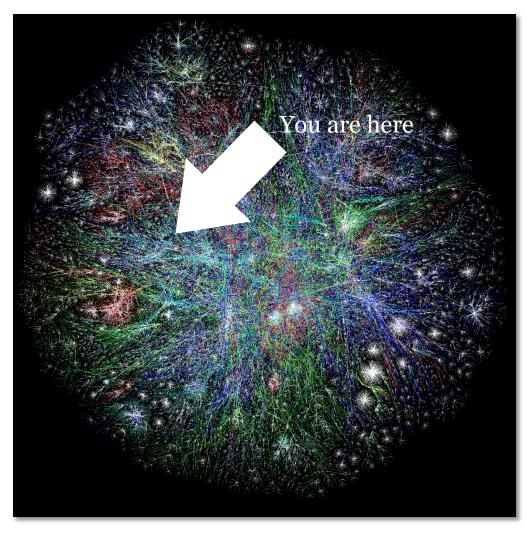


Globalization 3.0





Globalization 3.0



schematic map of the internet



Friedman's Ten Flatteners

- Fall of the Berlin Wall on November 9, 1989
- Netscape goes public on August 9, 1995
- Development of work-flow software
- Uploading
- Outsourcing
- Offshoring
- Supply chaining
- Insourcing
- Informing
- The steroids

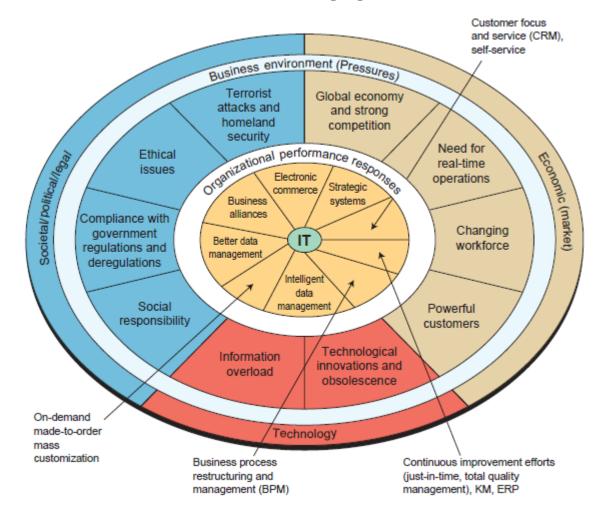


Business Pressures, Organizational Responses, and IT Support

- Business Pressures
 - Market Pressures
 - Global Economy and Strong Competition
 - The Changing Nature of the Workforce
 - Powerful Customers
 - Technology Pressures
 - Technological Innovation and Obsolescence
 - Information Overload
 - Societal/Political/Legal Pressures
 - Social Responsibility
 - Compliance with Government Regulations and Deregulation
 - Protection Against Terrorist Attacks
 - Ethical Issues



Business Pressures, Organizational Responses, and IT Support





Business Pressures, Organizational Responses, and IT Support

- Organizational Responses
 - Strategic Systems
 - Customer Focus
 - Make-to-Order and Mass Customization
 - Bodymetrics



Why Are Information Systems Important to Me?

- Information Systems and Information Technologies are Integral to Your Lives
- Information Systems Offers Career
 Opportunities
- Information Systems are used by all functional areas in an organization



Misinformation about Information Systems Career Opportunities

- Myth #1: There are no computing jobs
- Myth #2: There will be no IT jobs when I graduate
- Myth #3: All IT-related jobs are moving offshore
- Myth #4: Computing and IT salaries are low due to cheaper overseas labor





Referensi

Introduction to Information Systems, Third Edition, R. Kelly Rainer Jr, Casey G. Cegielski, Wiley





Merci Thank You Thank You Thank You Thank You Danke Danke Thank You Thank You Danke Thank You Danke Thank You Danke Thank You Thank You Thank You Danke Thank You Than