Case Study for Information Management 資訊管理個案

IT Infrastructure and Emerging Technologies: Salesforce.com (Chap. 5)

1011CSIM4C05 TLMXB4C Mon 8, 9, 10 (15:10-18:00) B602

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課程大綱 (Syllabus)

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  101/09/10 Introduction to Case Study for
              Information Management
  101/09/17 Information Systems in Global Business:
              1. UPS, 2. The National Bank of Kuwait (Chap. 1)
  101/09/24 Global E-Business and Collaboration:
              NTUC Income (Chap. 2)
  101/10/01 Information Systems, Organization, and Strategy:
              Soundbuzz (Chap. 3)
  101/10/08 IT Infrastructure and Emerging Technologies:
              Salesforce.com (Chap. 5)
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101/10/15 Foundations of Business Intelligence: Lego (Chap. 6)

課程大綱 (Syllabus)

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- 7 101/10/22 Telecommunications, the Internet, and Wireless Technology: Google, Apple, and Microsoft (Chap. 7)
- 8 101/10/29 Securing Information System:
 - 1. Facebook,
 - 2.European Network and Information Security Agency (ENISA) (Chap. 8)
- 9 101/11/05 Midterm Report (期中報告)
- 10 101/11/12 期中考試週
- 11 101/11/19 Enterprise Application:

 Border States Industries Inc. (BSE) (Chap. 9)
- 12 101/11/26 E-commerce: 1.Facebook, 2. Amazon vs. Walmart (Chap. 10)

課程大綱 (Syllabus)

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13 101/12/03 Knowledge Management:
              Tata Consulting Services (Chap. 11)
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15 101/12/17 Building Information Systems:
              Electronic Medical Records (Chap. 13)
16 101/12/24 Managing Projects: JetBlue and WestJet (Chap. 14)
   101/12/31 Final Report (期末報告)
18 102/01/07 期末考試週
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Chap. 5 IT Infrastructure and Emerging Technologies: Salesforce.com

Case Study: Salesforce.com (Chap. 5)

Salesforce.Com: Cloud Services Go Mainstream

- 1. How does Salesforce.com use cloud computing?
- 2. What are some of the challenges facing Salesforce as it continues its growth? How well will it be able to meet those challenges?
- 3. What kinds of businesses could benefit from switching to Salesforce and why?
- 4. What factors would you take into account in deciding whether to use Salesforce.com for your business?
- 5. Could a company run its entire business using Salesforce.com, Force.com and App Exchange? Explain your answer.

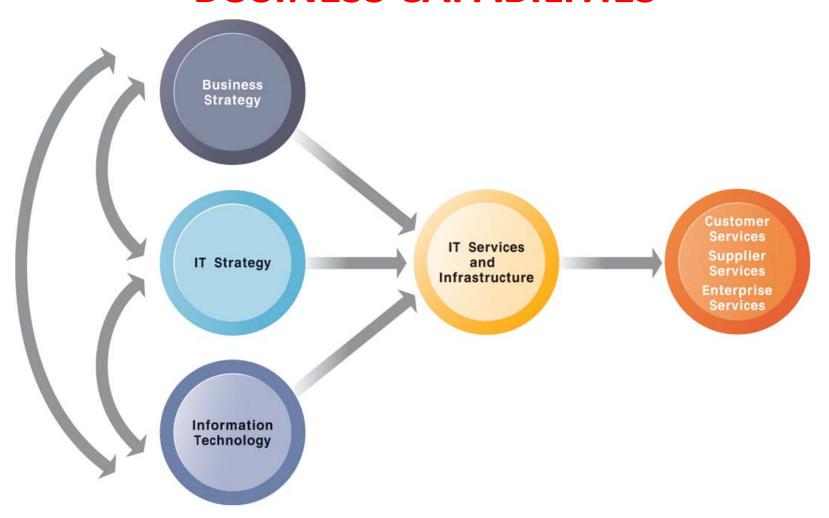
BART Speeds Up with a New IT Infrastructure

- Problem: Aging systems no longer able to provide information rapidly enough for timely decisions; too unreliable for 24/7 operations
- Solutions: Replaced and upgraded hardware and software and used leading-edge technology
 - Grid computing
 - Virtualization
 - Blade servers
- Demonstrates IT's role in using resources more efficiently; reducing computing energy usage, modernizing services

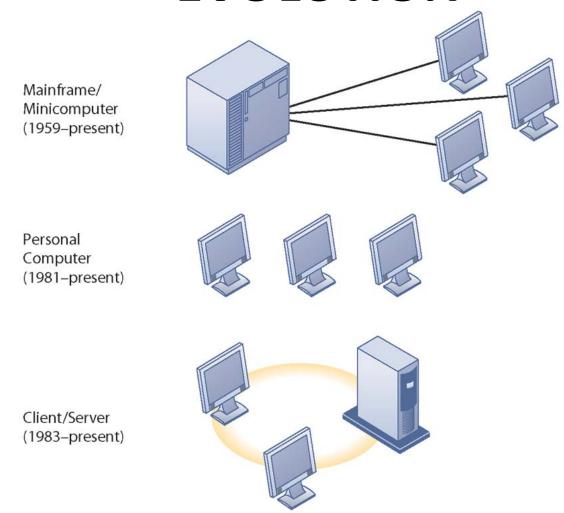
IT infrastructure

- Set of physical devices and software required to operate enterprise
- Set of firmwide services including:
 - Computing platforms providing computing services
 - Telecommunications services
 - Data management services
 - Application software services
 - Physical facilities management services
 - IT management, standards, education, research and development services
- "Service platform" perspective more accurate view of value of investments

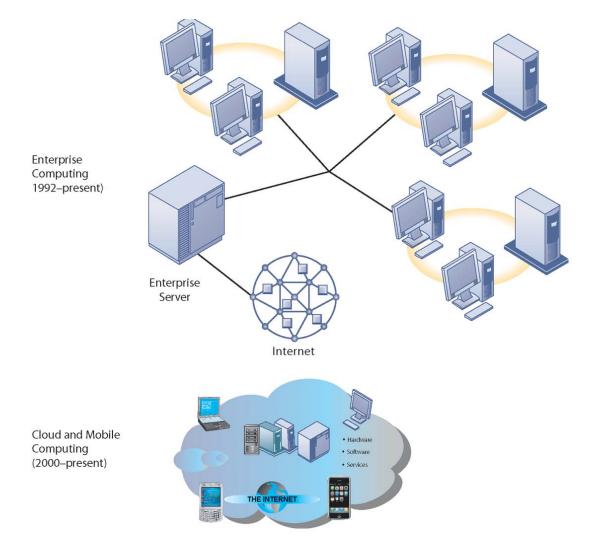
CONNECTION BETWEEN THE FIRM, IT INFRASTRUCTURE, AND BUSINESS CAPABILITIES



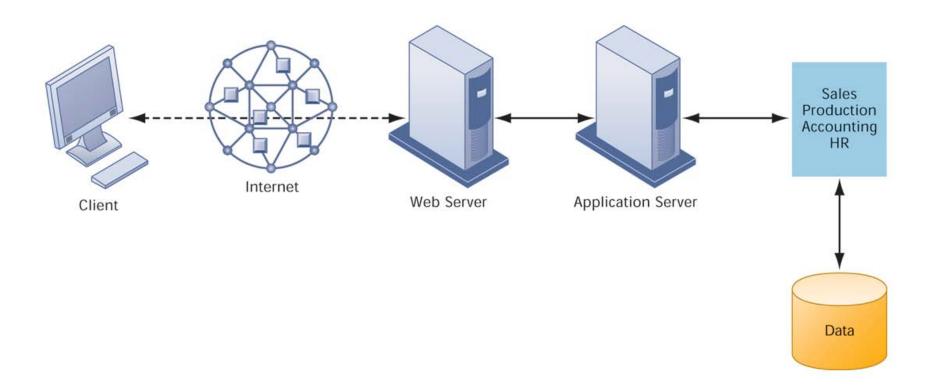
STAGES IN IT INFRASTRUCTURE EVOLUTION



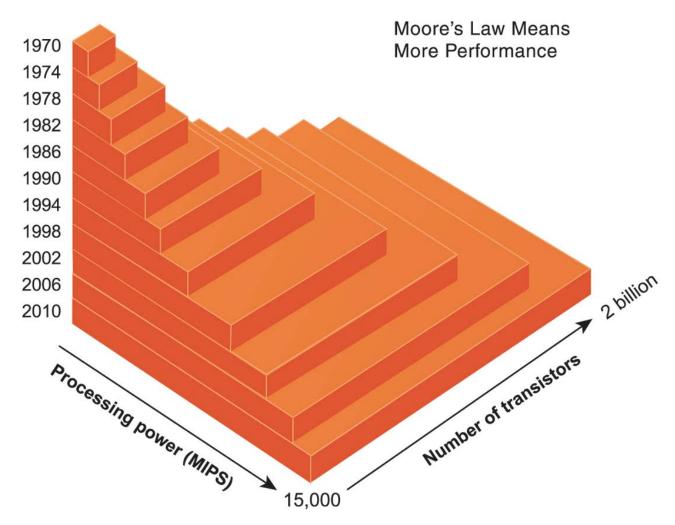
STAGES IN IT INFRASTRUCTURE EVOLUTION



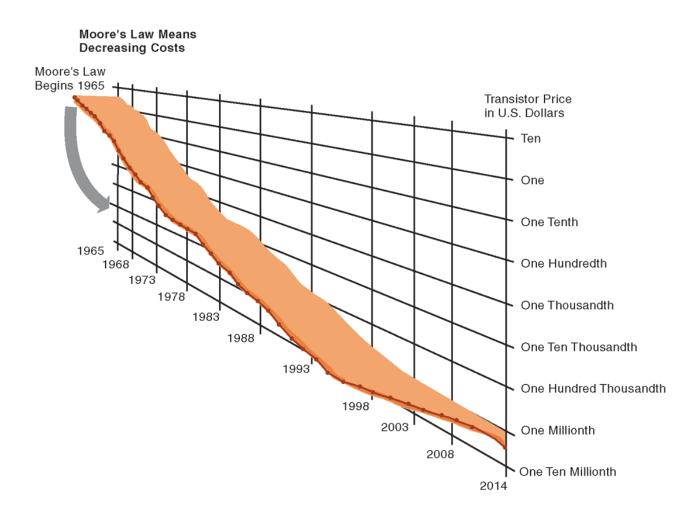
A MULTITIERED CLIENT/SERVER NETWORK (N-TIER)



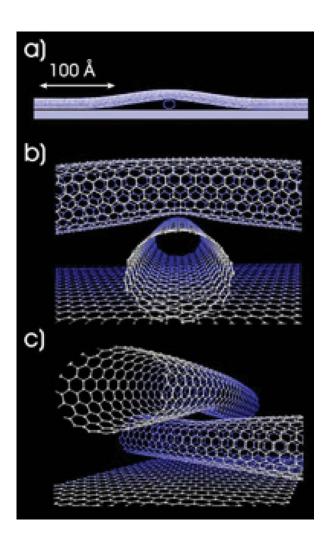
MOORE'S LAW AND MICROPROCESSOR PERFORMANCE



FALLING COST OF CHIPS



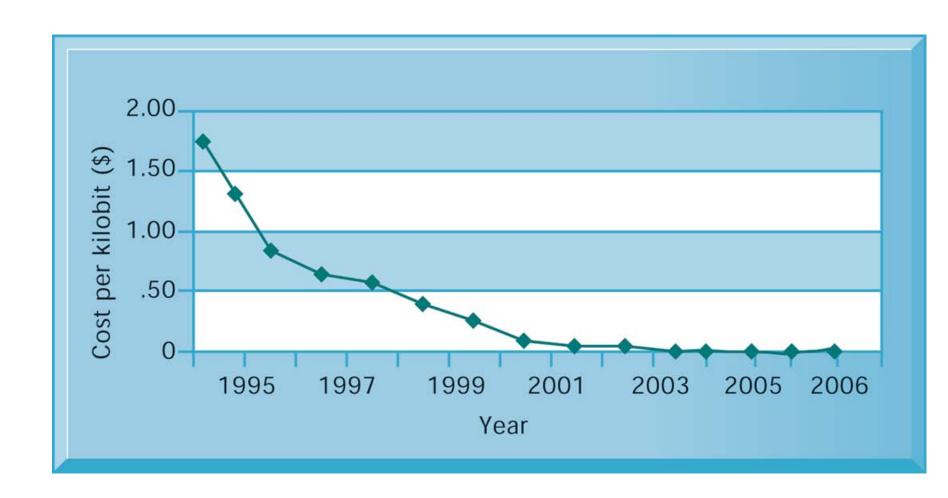
EXAMPLES OF NANOTUBES



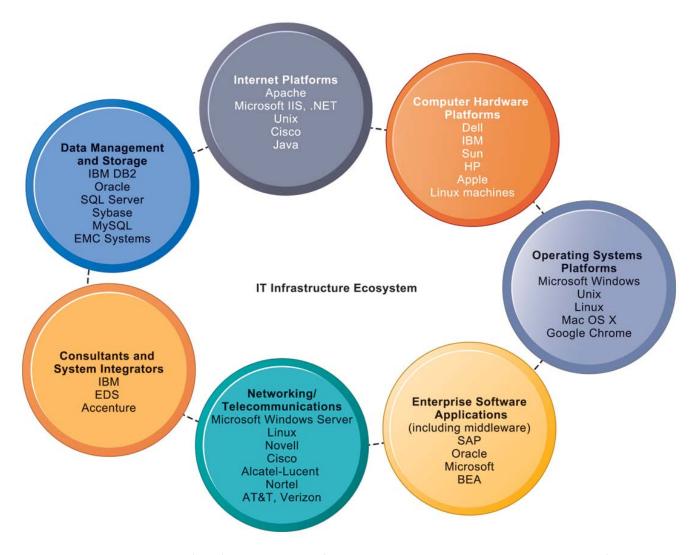
THE COST OF STORING DATA DECLINES EXPONENTIALLY 1950–2010



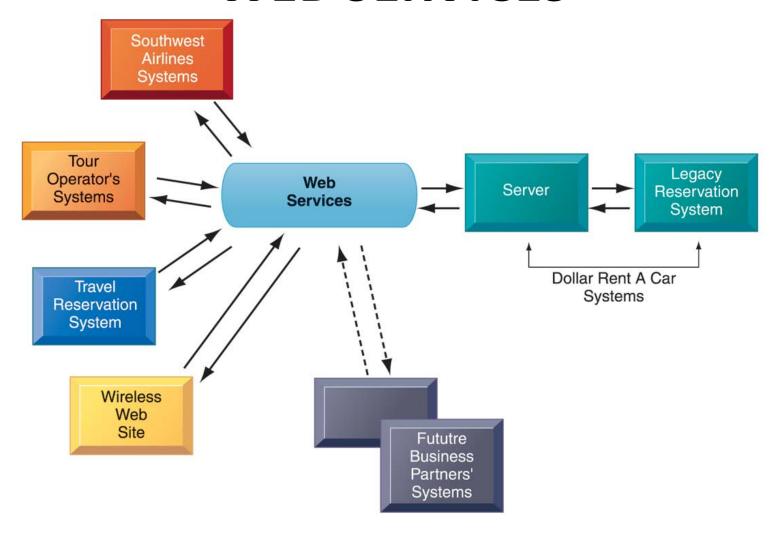
EXPONENTIAL DECLINES IN INTERNET COMMUNICATIONS COSTS



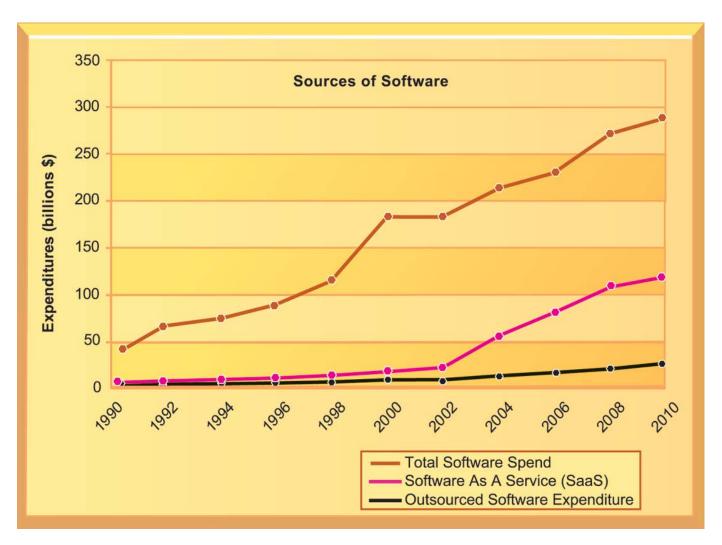
THE IT INFRASTRUCTURE ECOSYSTEM



HOW DOLLAR RENT A CAR USES WEB SERVICES



CHANGING SOURCES OF FIRM SOFTWARE



Software outsourcing and cloud services

- Three external sources for software:
 - 1. Software packages and enterprise software
 - 2. Software outsourcing (domestic or offshore)
 - 3. Cloud-based software services

Cloud-based software services

- Software as a service (SaaS)
- Accessed with Web browser over Internet
- Ranges from free or low-cost services for individuals to business and enterprise software
- Users pay on subscription or per-transaction
- E.g. Salesforce.com
- Service Level Agreements (SLAs):
 - formal agreement with service providers

Software outsourcing and cloud services

Mashups

 Combinations of two or more online applications, such as combining mapping software (Google Maps) with local content

Apps

- Small pieces of software that run on the Internet, on your computer, or on your cell phone
 - iPhone, BlackBerry, Android
- Generally delivered over the Internet

Management Issues

- Dealing with platform and infrastructure change
 - As firms shrink or grow, IT needs to be flexible and scalable
 - Scalability:
 - Ability to expand to serve larger numbers of users
 - For mobile computing and cloud computing
 - New policies and procedures for managing these new platforms
 - Contractual agreements with firms running clouds and distributing software required

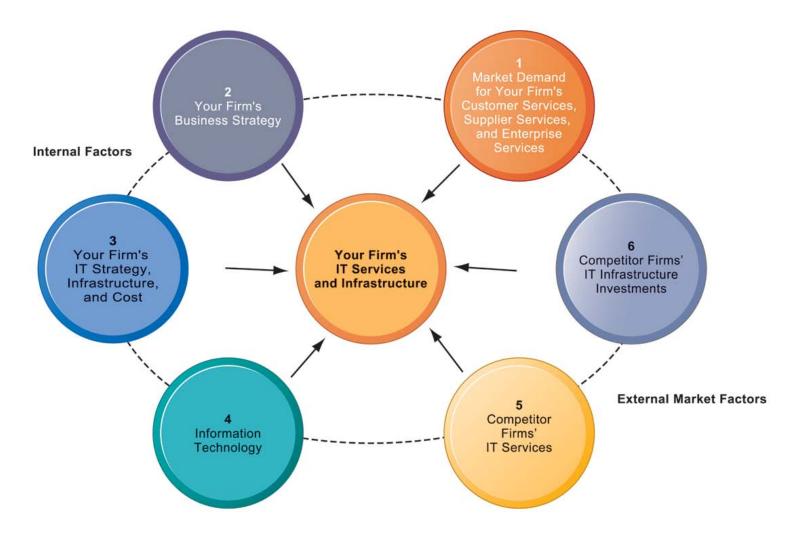
Management Issues

- Management and governance
 - Who controls IT infrastructure?
 - How should IT department be organized?
 - Centralized
 - Central IT department makes decisions
 - Decentralized
 - Business unit IT departments make own decisions
 - How are costs allocated between divisions, departments?

Management Issues

- Making wise infrastructure investments
 - Amount to spend on IT is complex question
 - Rent vs. buy, outsourcing
 - Total cost of ownership (TCO) model
 - Analyzes direct and indirect costs
 - Hardware, software account for only about 20% of TCO
 - Other costs: Installation, training, support, maintenance, infrastructure, downtime, space and energy
 - TCO can be reduced through use of cloud services, greater centralization and standardization of hardware and software resources

COMPETITIVE FORCES MODEL FOR IT INFRASTRUCTURE



資訊管理個案 (Case Study for Information Management)

- 1. 請同學於資訊管理個案討論前 應詳細研讀個案,並思考個案研究問題。
- 2. 請同學於上課前複習相關資訊管理相關 理論,以作為個案分析及擬定管理對策的 依據。
- 3. 請同學於上課前 先繳交個案研究問題書面報告。

References

- Kenneth C. Laudon & Jane P. Laudon (2012),
 Management Information Systems: Managing the Digital Firm, Twelfth Edition, Pearson.
- 周宣光 譯 (2011), 資訊管理系統—管理數位化公司, 第12版,東華書局